

## Refine Search

### Search Results -

Terms	Documents
L9	31

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L10

Refine Search

Recall Text

Clear

Interrupt

### Search History

 DATE: Monday, March 08, 2004   [Printable Copy](#)   [Create Case](#)

<u>Set</u> <u>Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<u>L10</u>	<i>DB=EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i>	31	<u>L10</u>
<u>L9</u>	<i>DB=USPT,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i>	2078	<u>L9</u>
<u>L8</u>	token and inventory and (order\$ with (item or goods or product))	0	<u>L8</u>
<u>L7</u>	token and ((cell\$ or mobile) with (phone or telephone)) and inventory and (order\$ with (item or goods or product))	0	<u>L7</u>
<u>L6</u>	token and ((cell\$ or mobile) with (phone or telephone)) and inventory and (order\$ with (item or goods or product)) and deliver\$	0	<u>L6</u>
<u>L5</u>	token and ((cell\$ or mobile) with (phone or telephone)) and inventory and (order\$ with (item or goods or product)) and deliver\$ and @pd<=19980623	0	<u>L5</u>
	<i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i>		

<u>L4</u>	L3 and I2	3	<u>L4</u>
<u>L3</u>	705/26,2728,29.ccls.	1057	<u>L3</u>
<u>L2</u>	token and ((cell\$ or mobile) with (phone or telephone)) and inventory and (order\$ with (item or goods or product)) and deliver\$ and @ad<=19980623	17	<u>L2</u>
<u>L1</u>	5329589.PN. OR 5313463.PN. OR 5181238.PN.	3	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 10 of 31 returned.

☐ 1. Document ID: JP 08076813 A

Using default format because multiple data bases are involved.

L10: Entry 1 of 31

File: JPAB

Mar 22, 1996

PUB-NO: JP408076813A

DOCUMENT-IDENTIFIER: JP 08076813 A

TITLE: SIMULATION MODELING METHOD

PUBN-DATE: March 22, 1996

## INVENTOR-INFORMATION:

NAME

COUNTRY

TERADA, HIROBUMI

OOMURA, KAYAKO

UMEDA, TOSHIHIRO

FUKUSHIMA, TAKASHI

KONISHI, MASAMI

INT-CL (IPC): G05 B 15/02; B23 Q 41/08; G06 F 17/60

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 2. Document ID: JP 60000139 A

L10: Entry 2 of 31

File: JPAB

Jan 5, 1985

PUB-NO: JP360000139A

DOCUMENT-IDENTIFIER: JP 60000139 A

TITLE: REMOTE CONTROLLER

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 3. Document ID: EP 1104973 A1

L10: Entry 3 of 31

File: EPAB

Jun 6, 2001

PUB-NO: EP001104973A1

DOCUMENT-IDENTIFIER: EP 1104973 A1

## Hit List

Your wildcard search against 10000 terms has yielded the results below.

*Your result set for the last L# is incomplete.*

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 10 of 17 returned.

☐ 1. Document ID: US 6654378 B1

L2: Entry 1 of 17

File: USPT

Nov 25, 2003

US-PAT-NO: 6654378

DOCUMENT-IDENTIFIER: US 6654378 B1

TITLE: Transaction control system including portable data terminal and mobile customer service station

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

☐ 2. Document ID: US 6594692 B1

L2: Entry 2 of 17

File: USPT

Jul 15, 2003

US-PAT-NO: 6594692

DOCUMENT-IDENTIFIER: US 6594692 B1

TITLE: Methods for transacting electronic commerce

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

☐ 3. Document ID: US 6443840 B1

L2: Entry 3 of 17

File: USPT

Sep 3, 2002

US-PAT-NO: 6443840

DOCUMENT-IDENTIFIER: US 6443840 B1

TITLE: Evaluation of responses of participatory broadcast audience with prediction of winning contestants; monitoring, checking and controlling of wagering, and automatic crediting and couponing

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

☐ 4. Document ID: US 6405049 B2

L2: Entry 4 of 17

File: USPT

Jun 11, 2002

US-PAT-NO: 6405049

DOCUMENT-IDENTIFIER: US 6405049 B2

TITLE: Portable data terminal and cradle

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 5. Document ID: US 6330244 B1

L2: Entry 5 of 17

File: USPT

Dec 11, 2001

US-PAT-NO: 6330244

DOCUMENT-IDENTIFIER: US 6330244 B1

TITLE: System for digital radio communication between a wireless lan and a PBX

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 6. Document ID: US 6266639 B1

L2: Entry 6 of 17

File: USPT

Jul 24, 2001

US-PAT-NO: 6266639

DOCUMENT-IDENTIFIER: US 6266639 B1

TITLE: Method and apparatus for providing notification of pre-established shorthand notation

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 7. Document ID: US 6125388 A

L2: Entry 7 of 17

File: USPT

Sep 26, 2000

US-PAT-NO: 6125388

DOCUMENT-IDENTIFIER: US 6125388 A

TITLE: System for transporting information objects between a user station and multiple remote sources based upon user modifiable object manifest stored in the user station

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 8. Document ID: US 6119101 A

L2: Entry 8 of 17

File: USPT

Sep 12, 2000

US-PAT-NO: 6119101

DOCUMENT-IDENTIFIER: US 6119101 A

TITLE: Intelligent agents for electronic commerce

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 9. Document ID: US 6041374 A

L2: Entry 9 of 17

File: USPT

Mar 21, 2000

US-PAT-NO: 6041374

DOCUMENT-IDENTIFIER: US 6041374 A

TITLE: PCMCIA interface card for coupling input devices such as barcode scanning engines to personal digital assistants and palmtop computers

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 10. Document ID: US 5916024 A

L2: Entry 10 of 17

File: USPT

Jun 29, 1999

US-PAT-NO: 5916024

DOCUMENT-IDENTIFIER: US 5916024 A

TITLE: System and method of playing games and rewarding successful players

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Terms	Documents
token and ((cell\$ or mobile) with (phone or telephone)) and inventory and (order\$ with (item or goods or product)) and deliver\$ and @ad<=19980623	17

Display Format:  [Previous Page](#)[Next Page](#)[Go to Doc#](#)

## Hit List

Your wildcard search against 10000 terms has yielded the results below.

*Your result set for the last L# is incomplete.*

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 11 through 17 of 17 returned.

☐ 11. Document ID: US 5759101 A

L2: Entry 11 of 17

File: USPT

Jun 2, 1998

US-PAT-NO: 5759101

DOCUMENT-IDENTIFIER: US 5759101 A

TITLE: Central and remote evaluation of responses of participatory broadcast audience with automatic crediting and couponing

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 12. Document ID: US 5697844 A

L2: Entry 12 of 17

File: USPT

Dec 16, 1997

US-PAT-NO: 5697844

DOCUMENT-IDENTIFIER: US 5697844 A

TITLE: System and method for playing games and rewarding successful players

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 13. Document ID: US 5694546 A

L2: Entry 13 of 17

File: USPT

Dec 2, 1997

US-PAT-NO: 5694546

DOCUMENT-IDENTIFIER: US 5694546 A

TITLE: System for automatic unattended electronic information transport between a server and a client by a vendor provided transport software with a manifest list

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 14. Document ID: US 5671374 A

L2: Entry 14 of 17

File: USPT

Sep 23, 1997

US-PAT-NO: 5671374

DOCUMENT-IDENTIFIER: US 5671374 A

TITLE: PCMCIA interface card coupling input devices such as barcode scanning engines to personal digital assistants and palmtop computers

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 15. Document ID: US 5508731 A

L2: Entry 15 of 17

File: USPT

Apr 16, 1996

US-PAT-NO: 5508731

DOCUMENT-IDENTIFIER: US 5508731 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Generation of enlarged participatory broadcast audience

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 16. Document ID: US 5434394 A

L2: Entry 16 of 17

File: USPT

Jul 18, 1995

US-PAT-NO: 5434394

DOCUMENT-IDENTIFIER: US 5434394 A

TITLE: Automated order and delivery system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 17. Document ID: US 5310997 A

L2: Entry 17 of 17

File: USPT

May 10, 1994

US-PAT-NO: 5310997

DOCUMENT-IDENTIFIER: US 5310997 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Automated order and delivery system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS



Terms	Documents
token and ((cell\$ or mobile) with (phone or telephone)) and inventory and (order\$ with (item or goods or product)) and deliver\$ and @ad<=19980623	17

---

Display Format: [Change Format](#)[Previous Page](#)[Next Page](#)[Go to Doc#](#)

# Hit List

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 6594692 B1

L4: Entry 1 of 3

File: USPT

Jul 15, 2003

US-PAT-NO: 6594692

DOCUMENT-IDENTIFIER: US 6594692 B1

TITLE: Methods for transacting electronic commerce

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 2. Document ID: US 6119101 A

L4: Entry 2 of 3

File: USPT

Sep 12, 2000

US-PAT-NO: 6119101

DOCUMENT-IDENTIFIER: US 6119101 A

TITLE: Intelligent agents for electronic commerce

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 3. Document ID: US 5694546 A

L4: Entry 3 of 3

File: USPT

Dec 2, 1997

US-PAT-NO: 5694546

DOCUMENT-IDENTIFIER: US 5694546 A

TITLE: System for automatic unattended electronic information transport between a server and a client by a vendor provided transport software with a manifest list

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Terms	Documents
L3 and L2	3

---

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

[First Hit](#)   [Fwd Refs](#)

Generate Collection

Print

L4: Entry 1 of 3

File: USPT

Jul 15, 2003

US-PAT-NO: 6594692

DOCUMENT-IDENTIFIER: US 6594692 B1

TITLE: Methods for transacting electronic commerce

DATE-ISSUED: July 15, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reisman; Richard R.	New York	NY	10003	

APPL-NO: 08/ 641010   [\[PALM\]](#)

DATE FILED: April 29, 1996

## PARENT-CASE:

This application is a continuation-in-part of application Ser. No. 08/251,724, filed May 31, 1994, now patent number U.S. Pat. No. 5,694,546.

INT-CL: [07] [G06 F 17/60](#), [G06 F 15/163](#)

US-CL-ISSUED: 709/219; 709/203, 709/225, 705/26

US-CL-CURRENT: [709/219](#); [705/26](#), [709/203](#), [709/225](#)

FIELD-OF-SEARCH: 709/203, 709/206, 709/215, 709/217, 709/221, 709/236, 709/5, 709/2, 705/26, 705/31, 705/6, 705/37, 705/5, 705/32, 705/16, 705/39, 705/14, 705/30, 380/24, 380/25

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

Search Selected

Search ALL

Clear

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <a href="#">4059729</a>	November 1977	Eddy et al.	
<input type="checkbox"/> <a href="#">4264782</a>	April 1981	Konheim	380/25
<input type="checkbox"/> <a href="#">4274139</a>	June 1981	Hodgkinson et al.	709/203
<input type="checkbox"/> <a href="#">4432057</a>	February 1984	Daniell et al.	707/8
<input type="checkbox"/> <a href="#">4528643</a>	July 1985	Freeny, Jr.	
<input type="checkbox"/> <a href="#">4558413</a>	December 1985	Schmidt et al.	707/203
<input type="checkbox"/> <a href="#">4584641</a>	April 1986	Guglicimino	
<input type="checkbox"/> <a href="#">4586134</a>	April 1986	Norstedt	

<input type="checkbox"/>	<u>4604686</u>	August 1986	Reiter et al.	395/500.46
<input type="checkbox"/>	<u>4635189</u>	January 1987	Kendall	
<input type="checkbox"/>	<u>4646229</u>	February 1987	Boyle	
<input type="checkbox"/>	<u>4674055</u>	June 1987	Ogaki et al.	
<input type="checkbox"/>	<u>4714992</u>	December 1987	Gladney et al.	707/206
<input type="checkbox"/>	<u>4714995</u>	December 1987	Materna et al.	707/201
<input type="checkbox"/>	<u>4734858</u>	March 1988	Schlaflly	705/26
<input type="checkbox"/>	<u>4745559</u>	May 1988	Willis et al.	705/37
<input type="checkbox"/>	<u>4746559</u>	May 1988	Nishikawa et al.	428/142
<input type="checkbox"/>	<u>4760572</u>	July 1988	Tomikawa	
<input type="checkbox"/>	<u>4775935</u>	October 1988	Yourick	345/357
<input type="checkbox"/>	<u>4796181</u>	January 1989	Wiedemer	
<input type="checkbox"/>	<u>4797913</u>	January 1989	Kaplan et al.	379/91.02
<input type="checkbox"/>	<u>4799156</u>	January 1989	Shavit et al.	
<input type="checkbox"/>	<u>4815030</u>	March 1989	Cross et al.	364/900
<input type="checkbox"/>	<u>4845658</u>	July 1989	Gifford	
<input type="checkbox"/>	<u>4868866</u>	September 1989	Williams, Jr.	380/49
<input type="checkbox"/>	<u>4894857</u>	January 1990	Szlam et al.	379/67
<input type="checkbox"/>	<u>4935870</u>	June 1990	Burk, Jr. et al.	709/203
<input type="checkbox"/>	<u>4947028</u>	August 1990	Gorog	235/380
<input type="checkbox"/>	<u>4973863</u>	November 1990	Gotta, III et al.	326/78
<input type="checkbox"/>	<u>4974149</u>	November 1990	Valenti	395/200.47
<input type="checkbox"/>	<u>4984155</u>	January 1991	Geier et al.	
<input type="checkbox"/>	<u>4992940</u>	February 1991	Dworkin	705/26
<input type="checkbox"/>	<u>5008814</u>	April 1991	Mathur	709/221
<input type="checkbox"/>	<u>5008853</u>	April 1991	Bly et al.	345/331
<input type="checkbox"/>	<u>5019963</u>	May 1991	Alderson et al.	707/201
<input type="checkbox"/>	<u>5047928</u>	September 1991	Wiedemer	
<input type="checkbox"/>	<u>5077607</u>	December 1991	Johnson et al.	348/13
<input type="checkbox"/>	<u>5101402</u>	March 1992	Chiu et al.	
<input type="checkbox"/>	<u>5103392</u>	April 1992	Mori	380/4
<input type="checkbox"/>	<u>5133075</u>	July 1992	Risch	395/800
<input type="checkbox"/>	<u>5142680</u>	August 1992	Ottman et al.	
<input type="checkbox"/>	<u>5155484</u>	October 1992	Chambers, IV	
<input type="checkbox"/>	<u>5155591</u>	October 1992	Wachob	
<input type="checkbox"/>	<u>5155680</u>	October 1992	Wiedemer	
<input type="checkbox"/>	<u>5155847</u>	October 1992	Kirouac et al.	395/600
	<u>5157783</u>	October 1992	Anderson et al.	

<input type="checkbox"/>				
<input type="checkbox"/>	<u>5165020</u>	November 1992	Sudama et al.	
<input type="checkbox"/>	<u>5167013</u>	November 1992	Hube et al.	358/1.11
<input type="checkbox"/>	<u>5185697</u>	February 1993	Jacobs et al.	
<input type="checkbox"/>	<u>5187787</u>	February 1993	Skeen et al.	
<input type="checkbox"/>	<u>5191410</u>	March 1993	McCalley et al.	348/13
<input type="checkbox"/>	<u>5204897</u>	April 1993	Wyman	710/200
<input type="checkbox"/>	<u>5220501</u>	June 1993	Lawlor et al.	308/24
<input type="checkbox"/>	<u>5220657</u>	June 1993	Bly et al.	711/152
<input type="checkbox"/>	<u>5226161</u>	July 1993	Khoyi et al.	709/303
<input type="checkbox"/>	<u>5229814</u>	July 1993	Hube et al.	399/14
<input type="checkbox"/>	<u>5247683</u>	September 1993	Holmes et al.	
<input type="checkbox"/>	<u>5257369</u>	October 1993	Skeen et al.	709/300
<input type="checkbox"/>	<u>5260999</u>	November 1993	Wyman	705/59
<input type="checkbox"/>	<u>5263164</u>	November 1993	Kannady et al.	
<input type="checkbox"/>	<u>5267171</u>	November 1993	Suzuki et al.	
<input type="checkbox"/>	<u>5280610</u>	January 1994	Travis, Jr. et al.	707/103
<input type="checkbox"/>	<u>5287504</u>	February 1994	Carpenter et al.	707/201
<input type="checkbox"/>	<u>5289371</u>	February 1994	Abel et al.	
<input type="checkbox"/>	<u>5297031</u>	March 1994	Guttermann et al.	705/37
<input type="checkbox"/>	<u>5297249</u>	March 1994	Bernstein et al.	345/356
<input type="checkbox"/>	<u>5303379</u>	April 1994	Khoyi et al.	395/710
<input type="checkbox"/>	<u>5303393</u>	April 1994	Noreen et al.	
<input type="checkbox"/>	<u>5309355</u>	May 1994	Lockwood	705/6
<input type="checkbox"/>	<u>5319542</u>	June 1994	King, Jr. et al.	
<input type="checkbox"/>	<u>5321750</u>	June 1994	Nadan	
<input type="checkbox"/>	<u>5331543</u>	July 1994	Yajima et al.	705/31
<input type="checkbox"/>	<u>5337360</u>	August 1994	Fischer	
<input type="checkbox"/>	<u>5341478</u>	August 1994	Travis, Jr. et al.	709/203
<input type="checkbox"/>	<u>5359730</u>	October 1994	Marron	395/712
<input type="checkbox"/>	<u>5367627</u>	November 1994	Johnson	345/357
<input type="checkbox"/>	<u>5367686</u>	November 1994	Fisher et al.	
<input type="checkbox"/>	<u>5371852</u>	December 1994	Attanasio et al.	370/401
<input type="checkbox"/>	<u>5379424</u>	January 1995	Morimoto et al.	
<input type="checkbox"/>	<u>5386369</u>	January 1995	Christiano	
<input type="checkbox"/>	<u>5388211</u>	February 1995	Hornbuckle	
<input type="checkbox"/>	<u>5390247</u>	February 1995	Fischer	
<input type="checkbox"/>	<u>5396546</u>	March 1995	Remillard	379/93.24

<input type="checkbox"/>				
<input type="checkbox"/>	<u>5404488</u>	April 1995	Kerrigan et al.	711/133
<input type="checkbox"/>	<u>5404505</u>	April 1995	Levinson	
<input type="checkbox"/>	<u>5406557</u>	April 1995	Baudoin	370/407
<input type="checkbox"/>	<u>5410646</u>	April 1995	Tondevold et al.	707/507
<input type="checkbox"/>	<u>5410698</u>	April 1995	Danneels et al.	
<input type="checkbox"/>	<u>5415416</u>	May 1995	Scagnelli et al.	463/25
<input type="checkbox"/>	<u>5418713</u>	May 1995	Allen	705/32
<input type="checkbox"/>	<u>5419820</u>	May 1995	Horton et al.	707/3
<input type="checkbox"/>	<u>5421009</u>	May 1995	Platt	395/200.51
<input type="checkbox"/>	<u>5426747</u>	June 1995	Weinreb et al.	711/203
<input type="checkbox"/>	<u>5434999</u>	July 1995	Goire et al.	
<input type="checkbox"/>	<u>5440744</u>	August 1995	Jacobson et al.	709/203
<input type="checkbox"/>	<u>5442791</u>	August 1995	Wrabetz et al.	395/674
<input type="checkbox"/>	<u>5450589</u>	September 1995	Maebayashi et al.	
<input type="checkbox"/>	<u>5452447</u>	September 1995	Nelson et al.	707/205
<input type="checkbox"/>	<u>5457795</u>	October 1995	Willman	
<input type="checkbox"/>	<u>5459506</u>	October 1995	Bushnell	
<input type="checkbox"/>	<u>5461667</u>	October 1995	Remillard	379/93.24
<input type="checkbox"/>	<u>5473772</u>	December 1995	Halliwel et al.	
<input type="checkbox"/>	<u>5483586</u>	January 1996	Sussman	
<input type="checkbox"/>	<u>5485370</u>	January 1996	Moss et al.	709/217
<input type="checkbox"/>	<u>5491800</u>	February 1996	Goldsmith et al.	395/200.51
<input type="checkbox"/>	<u>5491820</u>	February 1996	Belove et al.	707/3
<input type="checkbox"/>	<u>5495411</u>	February 1996	Ananda	
<input type="checkbox"/>	<u>5495610</u>	February 1996	Shing et al.	709/221
<input type="checkbox"/>	<u>5496177</u>	March 1996	Collia et al.	
<input type="checkbox"/>	<u>5497491</u>	March 1996	Mitchell et al.	709/303
<input type="checkbox"/>	<u>5499343</u>	March 1996	Pettus	709/203
<input type="checkbox"/>	<u>5499357</u>	March 1996	Sonty et al.	
<input type="checkbox"/>	<u>5504589</u>	April 1996	Montague et al.	358/403
<input type="checkbox"/>	<u>5509070</u>	April 1996	Schull	380/4
<input type="checkbox"/>	<u>5187787</u>	May 1996	Skeen et al.	395/600
<input type="checkbox"/>	<u>5515508</u>	May 1996	Pettus et al.	703/203
<input type="checkbox"/>	<u>5519769</u>	May 1996	Weinberger et al.	379/112
<input type="checkbox"/>	<u>5519875</u>	May 1996	Yokoyama et al.	
<input type="checkbox"/>	<u>5528490</u>	June 1996	Hill	
	<u>5530852</u>	June 1996	Meske, Jr. et al.	395/200.36

<input type="checkbox"/>				
<input type="checkbox"/>	<u>5537417</u>	July 1996	Sharma et al.	
<input type="checkbox"/>	<u>5539735</u>	July 1996	Moskowitz	370/420
<input type="checkbox"/>	<u>5541991</u>	July 1996	Benson et al.	
<input type="checkbox"/>	<u>5544320</u>	August 1996	Konrad	395/200.33
<input type="checkbox"/>	<u>5548645</u>	August 1996	Ananda	
<input type="checkbox"/>	<u>5548726</u>	August 1996	Pettus	709/221
<input type="checkbox"/>	<u>5552806</u>	September 1996	Lenchik	345/156
<input type="checkbox"/>	<u>5553223</u>	September 1996	Greenlee et al.	
<input type="checkbox"/>	<u>5555416</u>	September 1996	Owens et al.	
<input type="checkbox"/>	<u>5555427</u>	September 1996	Aoe et al.	709/201
<input type="checkbox"/>	<u>5557724</u>	September 1996	Sampat et al.	
<input type="checkbox"/>	<u>5557793</u>	September 1996	Koerber	707/103
<input type="checkbox"/>	<u>5557798</u>	September 1996	Skeen et al.	705/35
<input type="checkbox"/>	<u>5560008</u>	September 1996	Johnson et al.	713/201
<input type="checkbox"/>	<u>5560012</u>	September 1996	Ryu et al.	395/701
<input type="checkbox"/>	<u>5564051</u>	October 1996	Halliwel et al.	707/200
<input type="checkbox"/>	<u>5566302</u>	October 1996	Khalidi et al.	709/300
<input type="checkbox"/>	<u>5572643</u>	November 1996	Judson	395/200.45
<input type="checkbox"/>	<u>5576951</u>	November 1996	Lockwood	705/27
<input type="checkbox"/>	<u>5577244</u>	November 1996	Killebrew et al.	395/703
<input type="checkbox"/>	<u>5577251</u>	November 1996	Hamilton et al.	395/671
<input type="checkbox"/>	<u>5579537</u>	November 1996	Takahisa	
<input type="checkbox"/>	<u>5581755</u>	December 1996	Koerber et al.	707/103
<input type="checkbox"/>	<u>5581761</u>	December 1996	Radia et al.	395/702
<input type="checkbox"/>	<u>5581764</u>	December 1996	Fitzgerald et al.	395/703
<input type="checkbox"/>	<u>5586304</u>	December 1996	Stupek, Jr. et al.	
<input type="checkbox"/>	<u>5586311</u>	December 1996	Davies et al.	707/1
<input type="checkbox"/>	<u>5586322</u>	December 1996	Beck et al.	
<input type="checkbox"/>	<u>5586326</u>	December 1996	Ryu et al.	395/701
<input type="checkbox"/>	<u>5594910</u>	January 1997	Filepp et al.	712/28
<input type="checkbox"/>	<u>5596720</u>	January 1997	Hamada et al.	709/206
<input type="checkbox"/>	<u>5596746</u>	January 1997	Shen et al.	707/101
<input type="checkbox"/>	<u>5600834</u>	February 1997	Howard	707/201
<input type="checkbox"/>	<u>5602993</u>	February 1997	Stromberg	
<input type="checkbox"/>	<u>5604542</u>	February 1997	Dedrick	
<input type="checkbox"/>	<u>5606493</u>	February 1997	Duscher et al.	364/134
<input type="checkbox"/>	<u>5608874</u>	March 1997	Ogawa et al.	709/246



<input type="checkbox"/>				
<input type="checkbox"/>	<u>5615112</u>	March 1997	Liu Sheng et al.	707/104
<input type="checkbox"/>	<u>5619710</u>	April 1997	Travis, Jr. et al.	
<input type="checkbox"/>	<u>5623605</u>	April 1997	Keshav et al.	395/200.66
<input type="checkbox"/>	<u>5623656</u>	April 1997	Lyons	707/10
<input type="checkbox"/>	<u>5623661</u>	April 1997	Hon	707/1
<input type="checkbox"/>	<u>5623690</u>	April 1997	Palmer et al.	
<input type="checkbox"/>	<u>5625818</u>	April 1997	Zarmer et al.	707/104
<input type="checkbox"/>	<u>5627940</u>	May 1997	Rohra et al.	704/9
<input type="checkbox"/>	<u>5628005</u>	May 1997	Hurvig	707/8
<input type="checkbox"/>	<u>5630066</u>	May 1997	Gosling	395/200.51
<input type="checkbox"/>	<u>5630092</u>	May 1997	Carreiro et al.	711/111
<input type="checkbox"/>	<u>5630103</u>	May 1997	Smith et al.	
<input type="checkbox"/>	<u>5630116</u>	May 1997	Takaya et al.	707/201
<input type="checkbox"/>	<u>5634010</u>	May 1997	Ciscon et al.	709/223
<input type="checkbox"/>	<u>5635979</u>	June 1997	Kostreski et al.	348/13
<input type="checkbox"/>	<u>5638446</u>	June 1997	Rubin	
<input type="checkbox"/>	<u>5640501</u>	June 1997	Turpin	707/507
<input type="checkbox"/>	<u>5640564</u>	June 1997	Hamilton et al.	709/303
<input type="checkbox"/>	<u>5640577</u>	June 1997	Scharmer	707/507
<input type="checkbox"/>	<u>5642419</u>	June 1997	Rosen	380/23
<input type="checkbox"/>	<u>5644764</u>	July 1997	Johnson et al.	707/103
<input type="checkbox"/>	<u>5646992</u>	July 1997	Subler et al.	380/4
<input type="checkbox"/>	<u>5649192</u>	July 1997	Stucky	707/103
<input type="checkbox"/>	<u>5652887</u>	July 1997	Dewey et al.	709/303
<input type="checkbox"/>	<u>5654901</u>	August 1997	Boman	
<input type="checkbox"/>	<u>5664111</u>	September 1997	Nahan et al.	705/27
<input type="checkbox"/>	<u>5664207</u>	September 1997	Crumpler et al.	707/505
<input type="checkbox"/>	<u>5666493</u>	September 1997	Wojcik et al.	
<input type="checkbox"/>	<u>5668997</u>	September 1997	Lynch-Freshner et al.	709/303
<input type="checkbox"/>	<u>5673322</u>	September 1997	Pepe et al.	380/49
<input type="checkbox"/>	<u>5678002</u>	October 1997	Fawcett et al.	
<input type="checkbox"/>	<u>5680548</u>	October 1997	Trugman	709/226
<input type="checkbox"/>	<u>5680617</u>	October 1997	Gough et al.	395/615
<input type="checkbox"/>	<u>5682532</u>	October 1997	Remington et al.	709/303
<input type="checkbox"/>	<u>5682533</u>	October 1997	Siljestroemer	
<input type="checkbox"/>	<u>5684984</u>	November 1997	Jones et al.	707/10
	<u>5684991</u>	November 1997	Malcolm	707/204

<input type="checkbox"/>				
<input type="checkbox"/>	<u>5689708</u>	November 1997	Regnier et al.	709/229
<input type="checkbox"/>	<u>5694546</u>	December 1997	Reisman	705/26
<input type="checkbox"/>	<u>5694549</u>	December 1997	Carlin et al.	395/200.18
<input type="checkbox"/>	<u>5694551</u>	December 1997	Doyle et al.	705/26
<input type="checkbox"/>	<u>5694596</u>	December 1997	Campbell	
<input type="checkbox"/>	<u>5701451</u>	December 1997	Rogers et al.	
<input type="checkbox"/>	<u>5706434</u>	January 1998	Kremen et al.	709/218
<input type="checkbox"/>	<u>5708709</u>	January 1998	Rose	
<input type="checkbox"/>	<u>5708780</u>	January 1998	Levergood et al.	709/229
<input type="checkbox"/>	<u>5710887</u>	January 1998	Chelliah et al.	
<input type="checkbox"/>	<u>5710918</u>	January 1998	Lagarde et al.	707/10
<input type="checkbox"/>	<u>5715314</u>	February 1998	Payne et al.	705/27
<input type="checkbox"/>	<u>5715399</u>	February 1998	Bezos	705/78
<input type="checkbox"/>	<u>5717930</u>	February 1998	Imai et al.	
<input type="checkbox"/>	<u>5721824</u>	February 1998	Taylor	
<input type="checkbox"/>	<u>5721911</u>	February 1998	Ha et al.	707/100
<input type="checkbox"/>	<u>5724424</u>	March 1998	Gifford	380/24
<input type="checkbox"/>	<u>5727163</u>	March 1998	Bezos	705/27
<input type="checkbox"/>	<u>5732275</u>	March 1998	Kullick et al.	
<input type="checkbox"/>	<u>5734719</u>	March 1998	Tsevchos et al.	
<input type="checkbox"/>	<u>5742829</u>	April 1998	Davis et al.	
<input type="checkbox"/>	<u>5745681</u>	April 1998	Levine et al.	705/1
<input type="checkbox"/>	<u>5748960</u>	May 1998	Fischer	
<input type="checkbox"/>	<u>5758126</u>	May 1998	Daniels et al.	345/333
<input type="checkbox"/>	<u>5761200</u>	June 1998	Hsieh	370/364
<input type="checkbox"/>	<u>5761499</u>	June 1998	Sonderegger	
<input type="checkbox"/>	<u>5761649</u>	June 1998	Hill	714/701
<input type="checkbox"/>	<u>5761677</u>	June 1998	Senator et al.	707/203
<input type="checkbox"/>	<u>5761678</u>	June 1998	Bendert et al.	707/204
<input type="checkbox"/>	<u>5764906</u>	June 1998	Edelstein et al.	
<input type="checkbox"/>	<u>5764992</u>	June 1998	Kullick et al.	
<input type="checkbox"/>	<u>5768521</u>	June 1998	Dedrick	709/224
<input type="checkbox"/>	<u>5768528</u>	June 1998	Stumm	709/231
<input type="checkbox"/>	<u>5771354</u>	June 1998	Crawford	709/229
<input type="checkbox"/>	<u>5774670</u>	June 1998	Montulli	
<input type="checkbox"/>	<u>5784562</u>	July 1998	Diener	
<input type="checkbox"/>	<u>5790793</u>	August 1998	Higley	709/218

<input type="checkbox"/>				
<input type="checkbox"/>	<u>5793980</u>	August 1998	Glaser et al.	
<input type="checkbox"/>	<u>5794210</u>	August 1998	Goldhaber et al.	
<input type="checkbox"/>	<u>5809076</u>	September 1998	Hofmann	
<input type="checkbox"/>	<u>5809144</u>	September 1998	Sirbu et al.	
<input type="checkbox"/>	<u>5809287</u>	September 1998	Stupek, Jr. et al.	
<input type="checkbox"/>	<u>5812776</u>	September 1998	Gifford	709/217
<input type="checkbox"/>	<u>5819034</u>	October 1998	Joseph et al.	
<input type="checkbox"/>	<u>5826242</u>	October 1998	Montulli	
<input type="checkbox"/>	<u>5835911</u>	November 1998	Nakagawa et al.	
<input type="checkbox"/>	<u>5838906</u>	November 1998	Doyle et al.	
<input type="checkbox"/>	<u>5845077</u>	December 1998	Fawcett	
<input type="checkbox"/>	<u>5845090</u>	December 1998	Collins, III et al.	
<input type="checkbox"/>	<u>5848396</u>	December 1998	Gerace	
<input type="checkbox"/>	<u>5860012</u>	January 1999	Luu	
<input type="checkbox"/>	<u>5862325</u>	January 1999	Reed et al.	395/200.31
<input type="checkbox"/>	<u>5862362</u>	January 1999	Somasegar et al.	
<input type="checkbox"/>	<u>5909492</u>	June 1999	Payne et al.	380/24
<input type="checkbox"/>	<u>5909581</u>	June 1999	Park	
<input type="checkbox"/>	<u>5910987</u>	June 1999	Ginter et al.	380/24
<input type="checkbox"/>	<u>5918014</u>	June 1999	Robinson	
<input type="checkbox"/>	<u>5918054</u>	June 1999	Jury et al.	717/11
<input type="checkbox"/>	<u>5918213</u>	June 1999	Bernard et al.	705/26
<input type="checkbox"/>	<u>5926796</u>	July 1999	Walker et al.	705/16
<input type="checkbox"/>	<u>5937197</u>	August 1999	Jury	717/11
<input type="checkbox"/>	<u>5949876</u>	September 1999	Ginter et al.	380/4
<input type="checkbox"/>	<u>5960189</u>	September 1999	Stupek, Jr. et al.	
<input type="checkbox"/>	<u>5963915</u>	October 1999	Kirsch	
<input type="checkbox"/>	<u>5982891</u>	November 1999	Ginter et al.	380/4
<input type="checkbox"/>	<u>5983207</u>	November 1999	Turk et al.	705/39
<input type="checkbox"/>	<u>5987501</u>	November 1999	Hamilton et al.	
<input type="checkbox"/>	<u>5991735</u>	November 1999	Gerace	
<input type="checkbox"/>	<u>6005561</u>	December 1999	Hawkins et al.	
<input type="checkbox"/>	<u>6016509</u>	January 2000	Dedrick	709/224
<input type="checkbox"/>	<u>6016520</u>	January 2000	Facq et al.	
<input type="checkbox"/>	<u>6029142</u>	February 2000	Hill	
<input type="checkbox"/>	<u>6029175</u>	February 2000	Chow et al.	
<input type="checkbox"/>	<u>6031977</u>	February 2000	Pettus	

<input type="checkbox"/>				
<input type="checkbox"/>	<u>6038586</u>	March 2000	Frye	
<input type="checkbox"/>	<u>6044205</u>	March 2000	Reed et al.	395/200.31
<input type="checkbox"/>	<u>6047129</u>	April 2000	Frye	
<input type="checkbox"/>	<u>6049671</u>	April 2000	Slivka et al.	
<input type="checkbox"/>	<u>6049785</u>	April 2000	Gifford	705/39
<input type="checkbox"/>	<u>6055510</u>	April 2000	Henrick et al.	705/14
<input type="checkbox"/>	<u>6055573</u>	April 2000	Gardenswartz et al.	709/224
<input type="checkbox"/>	<u>6073214</u>	June 2000	Fawcett	
<input type="checkbox"/>	<u>6085256</u>	July 2000	Kitano et al.	709/303
<input type="checkbox"/>	<u>6118860</u>	September 2000	Hillson et al.	379/155
<input type="checkbox"/>	<u>6119152</u>	September 2000	Carlin et al.	709/217
<input type="checkbox"/>	<u>6119160</u>	September 2000	Zhang et al.	709/224
<input type="checkbox"/>	<u>6125388</u>	September 2000	Reisman	709/218
<input type="checkbox"/>	<u>6144946</u>	November 2000	Iwamura	705/30
<input type="checkbox"/>	<u>6151643</u>	November 2000	Cheng et al.	
<input type="checkbox"/>	<u>6195649</u>	February 2001	Gifford	
<input type="checkbox"/>	<u>6199051</u>	March 2001	Gifford	
<input type="checkbox"/>	<u>6205437</u>	March 2001	Gifford	
<input type="checkbox"/>	<u>6256668</u>	July 2001	Slivka et al.	
<input type="checkbox"/>	<u>6323894</u>	November 2001	Katz	
<input type="checkbox"/>	<u>6327617</u>	December 2001	Fawcett	
<input type="checkbox"/>	<u>6594546</u>	December 2001	Reisman	

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 680 185	April 1995	EP	
0 845 747	June 1998	EP	
0 855 659	July 1998	EP	
0 855 687	July 1998	EP	
0 883 076	December 1998	EP	
2291228	January 1996	GB	
360229138	November 1985	JP	
362053085	March 1987	JP	
403230234	October 1991	JP	
404142620	May 1992	JP	
WO 94/25913	November 1994	WO	
WO 94/25923	November 1994	WO	
WO 94/25924	November 1994	WO	
WO 95/30961	November 1995	WO	

WO 96/38799	December 1996	WO
97/32251	September 1997	WO
WO 98/21679	May 1998	WO

## OTHER PUBLICATIONS

"New File <FEE041> Express Access(New Jersey)", Peter Scott, Jun. 19, 1993, Newsgroups:bit.listserv.hytel-I.\*

"Beginners Guide to Internet Stuff", Kevin Hintergardt, Apr. 28, 1994, Newsgroups:alt.winsock.\*

"How to ftp patches", John Morris, Apr. 20, 1994, Newsgroups: comp.sys.hp,hpux.\*

"RE: Terminal emulators which provide automated file transfer", Don Libes, May 9, 1992, Newsgroups: comp.sys.sun.misc.\*

"Re: telnet in a shell script", Dan Bernstein, Nov. 13, 1990, Newsgroups:comp.unix.admin.\*

"Universal Access--\$8.95 unlimited Internet access", Doug Humphrey, Jul. 15, 1993, Newsgroups: alt.bbs.internet.\*

"Re:Internet Access to GPO Federal Bulletin Board", Smcgarr, Mar. 29, 1994, Newsgroups: bit.listserv.govdoc-I.\*

"Re: Fed Dep Manual on Internet ?", Smcgarr, May 17, 1994, Newsgroups: bit.listserv.govdoc-I.\*

"Federal Bulletin Board", Terry Carroll, Sep. 29, 1992, Newsgroups:misc.legal.\*

Herman, "GPO bulletin board opens gateway to agency info. (the Government Printing Office's electronic bulletin board)", Federal Computer Week, v6, n26, p1(2), Aug. 1992.\*

Fowler, "Treading the boards: BBS that draw you closer to the Internet, and away disaster", Computer Shopper, v13, n10, p608(2), Oct. 1993.\*

Hallman, "Exploring the Internet", Aug. 1992, [http:// sunsite.unicamp.br/ pub/ docs/ about-the-net/ internet-tutorials/ exploring\\_oit](http://sunsite.unicamp.br/pub/docs/about-the-net/internet-tutorials/exploring_oit).\*

Ubois, "Electronic bulletin board help companies communicate: BSS offer an efficient, cost-effective way to exchange information" Dec. 1992.\*

[Http://www.math.osu.edu/local/cac-access/access](http://www.math.osu.edu/local/cac-access/access) "93.60 Ectronic Information Access at Penn State", Sep. 1993.\*

[http:// ftp.sunset.se/ pub/ etext/ wiretap-classic-library/ online.txt](http://ftp.sunset.se/pub/etext/wiretap-classic-library/online.txt), "The online world", 9.1993.\*

Advertisement of BIX, "Byte", Feb. 1993.\*

Vaughan-Nichols, "Lotus and CIS team up on Notes; Wall Street Edge on Prodigy; new Internet options", Computer Shopper, v13, n7, 0.562(2), Jul. 1993.\*

[Http://www.fhi-berlin.mpg.de/amiga/ar/ar201/p4-9.html](http://www.fhi-berlin.mpg.de/amiga/ar/ar201/p4-9.html), Nov. 1994.\*

[http:// www.cpsr.org/ cpsr/ nii/ imp-archive](http://www.cpsr.org/cpsr/nii/imp-archive).\*

[Http://www.evolution.com/press/boardwatch](http://www.evolution.com/press/boardwatch) Dec. 1992.\*

"Applications for the TCP/IP telnet protocols", IBM TDB vol. 35, No. 4B, p. 258-260.\*

"[Http://www.nyx.net/history.html](http://www.nyx.net/history.html)".\*

"[Http://www.cpsr.org/cpsr/nii/imp\\_Amsterdam-minutes.txt](http://www.cpsr.org/cpsr/nii/imp_Amsterdam-minutes.txt)"--"Internet Mercantile Protocols BOF", Jul. 14, 1993.\*

"Automatic Patch Retrieval & Installation," by Stephanie Hamel, Newsgroups: comp.sys.sun.admin, 19994-03-08 (Two Copies).

"HP-UX Patch Availability," by John Milburn, Newsgroups: comp.sys.hp, Aug. 18, 1993.

"Patch Repository Now Open: rs6000.cmo.ilstu.edu," by Jean Liddle, Nowesgroups: comp.os.linux, Sep. 8, 1992.

"OKBRIDGE: Frequency Asked Questions," by Matthew Cleeg, Newsgroups: rec.games.bridge, Jul. 2, 1992.

"TisBITS#125/25-May-92," by Adam C. Engst, Newsgroups: comp.sys.mac.digest, May 26, 1992.

"Retrospect Users Guide," Dantz Development Corp., Berkley, CA. (1993).

"About 1-Click ordering" at Amazon.com, 4 pages.

"Article 16113 of alt.comp.acad-freedomtalk:", Chronicle of Higher Education, [http://invitro.umassmed.edu/lml/aup/supporting\\_docs/privacy.txt](http://invitro.umassmed.edu/lml/aup/supporting_docs/privacy.txt).

"E-Commerce as easy as 1-2-3", 1 Click Commerce.com.

"Elcom Services Group, Company Profile," <http://www.catalink.com/vision.html>.

"Establishing a Vitural Session for Web Applications," <http://ats.byu.edu/FCSDocs/VSMTheory.html>.

"Extensibility and Mini Applications," Ch. 13, <http://www.viola.org/book/chp13.html>.

"Java History," <http://ils.unc.edu/blaze/java.javahist.html>.

"Java History," On-line Magazine, <http://gates.comm.virginia.edu/mp16s/emergingtech/java/history.htm>.

"The Cookies Page", Electronic Privacy Information Center, <http://www.epic.org/privacy/internet/cookies/>.

"The Viola Home Page," <http://www.viola.org/>.

"Viola in a Nutshell: Preface," <http://www.viola.org/book/preface/html>.

"Viola WWW Features List," <http://www.viola.org/vwFeatures.html>.

"Virtual Library Mirror Procedures," [http://www.wdvl.com/WDVL/Website/Update/mirror\\_vlib.html](http://www.wdvl.com/WDVL/Website/Update/mirror_vlib.html).

Breitenbach, Zach and Irlbeck, Susan, "Cookies," <http://ecommerce.ncsu.edu/cs413/student-work/Cookies/Cookies.ppt>.

Kiplinger's CA--Simply Money User Guide, pp. (7-31)--(7-37).

Kirriemuir, J.P. and Knight, J. "Mirroring and caching network-based resources". Listing of various patents by Netcentives Inc., Open Market Inc., Amazon.com Inc., First Virtual Holdings inc., V-Cast, Inc., Citibank, and CyberGold, <http://www.google.com/search?q=cache:YL833u-zdDUC:www.ryuka.com/ecpat.html+ryuka%22commerce%22&hl=en>.

Mayer-Schonberger, V., "The Internet and Privacy Legislation: Cookies for a Treat?," <http://www.wvjolt.wvu.edu/wvjolt/current/issuel/articles/mayer/mayer.htm>.

Richmond, A. and Richmond, L., "suPerlative: Development and Public Servers" <http://www.wdvl.com/Software/Perl/Mirror.html>.

Weber, Thomas, "The Man Who Baked The First Web Cookies Chews Over Their Fate", Wall Street Journal, E-World.

"Automated Replacement of System Software Units", IBM Technical Disclosure Bulletin, pp. 3137-3138, Mar. 1971.

Daniels, D. and Spector, A.Z., "An Algorithm for Replicated Directories," 2.sup.nd PODC Conference Proceedings, ACM, Copyright 1983.

Fuchs, W.K., et al., "Low-Cost Comparison and Diagnosis of Large Remotely Located Files," Fifth Symposium on Reliability in Distributed Software and Database Systems, IEEE Computer Society, pp. 67-73, Jan. 1986.

"Method to Control Software-Update Applications", IBM Technical Disclosure Bulletin, pp. 5059-5060, Apr. 1987.

"CompuServe Information Services; Users Guide", pp. 119-127; 153-163; 235-243; Copyright 1988.

Symborski, Carl W., "Updating Software And Configuration Data In A Distributed Communications Network", IEEE, Copyright 1988.

A. DeScon and R. Braden, Background File Transfer Program (BFTP), Network Working Group Request for Comments: 1068, Aug. 1988.

Gopal, I. and Segall, A., "Directories for Networks with Casually Connected Users," Computer Networks and ISDN Systems 18, pp. 255-262, 1989-1990.

Rothfeder, J., "Dow Jones Makes A Young Dog Do New Tricks", Business Weekly, pp. 89 & 92, Jan. 16, 1989.

Sarin, S. et al., "A Flexible Algorithm for Replicated Directory Management," IEEE 9.sup.th International Conference on Distributed Computing System, pp. 456-464, Jun. 1989.

Shafer, Steven and Thompson, Mary, "The SUP Software Upgrade Protocol", Carnegie Mellon University School of Computer Science, Sep. 7, 1989.

Segal, Mark E. amd Frieder, Ophir, "Dynamically Updating Distributed Software: Supporting Change in Uncertain and Mistrustful Environments", IEEE Proceedings Conference on Software Maintenance--1989, Oct. 16-19, 1989.

Bowen, C. and Peyton, D., "Compuserve Information Manager, The Complete

Sourcebook", Copyright 1990.

T. Little & A. Ghafoor "Synchronization and Storage Models for Multimedia Objects" 1990 IEEE, Apr. 1990.

Jia, X et al., "Highly Concurrent Directory Management in the GALAXY Distributed System," IEEE 10.sup.th International Conference on Distributed Computing Systems, pp. 416-423, May/Jun. 1990.

Mori et al., "Superdistribution: The Concept and the Architecture," The Transactions of the IEICE, vol. E 73, No. 7, pp. 1133-1146, Jul. 1990.

Cheng, H.S. and Sheu, J.P., "Design and Implementation of a Distributed File System," Software--Practice and Experience, vol. 21(7), pp. 657-675, Jul. 1991.

Anderson, P., "Managing Program Binaries in a Heterogeneous UNIX Network," LISA V, San Diego, CA Sep. 30-Oct. 3, 1991.

Rich, K. and Leadley, S., "hobgoblin: A File and Directory Auditor," LISA V, San Diego, pp. 199-207, Sep. 30-Oct. 3, 1991.

Satdeva, B. Moriarty, P.M., "Fdist: A Domain Based File Distribution System for a Heterogeneous Environment," LISA V, San Diego, CA, pp. 109-125, Sep. 30-Oct. 3, 1991.

Sellens, J., "Software Maintenance in a Campus Environment: The Xhier Approach," LISA V, San Diego, CA, pp. 21-28, Sep. 30-Oct. 3, 1991.

Dyson, E., "Friendly Invoices", Forbes, Copyright 1992.

Bits & Bytes, Business Week, p. 126 I, Jun. 15, 1992.

Google--Advanced Group Search Results; see: "User's Guide for Public Access to the Federal Bulletin Board," The Federal Bulletin Board, U.S. GPO,

[http://groups.google.com/groups?q=terry+carroll++%22government+printing+office%22&hl=en&as\\_drrb=b&as\\_mind=12&as\\_minm=5&as\\_miny=1981&as\\_maxd=12&as\\_maxm=2&as\\_maxy=1993&selm=16ty0294245p01%40JUTS.ccc.amdahl.com&rnum=2](http://groups.google.com/groups?q=terry+carroll++%22government+printing+office%22&hl=en&as_drrb=b&as_mind=12&as_minm=5&as_miny=1981&as_maxd=12&as_maxm=2&as_maxy=1993&selm=16ty0294245p01%40JUTS.ccc.amdahl.com&rnum=2), Sep. 1992.

Fletcher, Mark, "doit: A Network Software Managment Tool", USENIX Association, Proceedings of the Sixth Systems Administration Conference (LISA VI), Long Beach, CA, Oct. 19-23, 1992.

Symonds, W. C., "Getting Rid Of Paper Is Just The Beginning", Business Week, Dec. 21, 1992.

"EDI Transaction Set Reference Card"; TSI International, Copyright 1993.

"Experience Network Specifying Wizardry!", NetSource advertisement, 1993.

"Quicken, Quicken Companion And More . . .", Intuit advertisement, Copyright 1993.

"Smart Investors Watch the Market. StreetSmart Investors Get a Windows View," Charles Schwab StreetSmart investing software for Windows advertisement, Copyright 1993.

"The First Electronic Superstore Just Opened on Your PC," PECOS Catalink Direct pamphlet, Copyright 1993.

IDD Information Services Tradeline Electronic Stock Guide subscription information and update coupon, 1993.

Rozenblit, M., "O, A & M Capabilities for Switching Software Management," IEEE Global Telecommunications Conference, pp. 357-361, Copyright 1993.

Google--Advanced Group Search Results; see: [http://groups.google.com/groups?q=eudora+%22steven+dorner%22&hl=en&as\\_drrb=b&as\\_mind=12&as\\_minm=5&as\\_miny=1981&as\\_maxd=12](http://groups.google.com/groups?q=eudora+%22steven+dorner%22&hl=en&as_drrb=b&as_mind=12&as_minm=5&as_miny=1981&as_maxd=12).

Article 10383 of comp.lang.perl., URL:[www.metronet.com/perl/scripts/ftpstuff/ftpr](http://www.metronet.com/perl/scripts/ftpstuff/ftpr), Apr. 6, 1993.

"Hypertext Mark Up Language (HTML)," <http://www.w3.org/MarkUP/draft-ietf-iiir-html-01>, Jun. 1993.

Article 3893 of comp.lang.perl: Xref: [www.metronet.com](http://www.metronet.com) comp.lang.perl:3893, URL:[www.metronet.com/perlinfo/scripts/ftpstuff/ftpget](http://www.metronet.com/perlinfo/scripts/ftpstuff/ftpget), Jun. 30, 1993.

Bits & Bytes, Business Week, p. 140 D, Jul. 12, 1993.

Article 5397 of comp.lang.perl: Xref: [www.metronet.com](http://www.metronet.com) comp.infosystems.www:1336 comp.lang.perl:5397, URL:[ftp.telecom.sk/pub/mirror/CPAN/scripts/i](http://ftp.telecom.sk/pub/mirror/CPAN/scripts/i) . . .

[WWW/http.get.pl](http://www.get.pl), Aug. 25, 1993.

Howard, J.H., "Using Reconciliation to Share Files Between Occasionally Connected Computers," IEEE Fourth Workshop on Workstation Operating Systems, pp. 56-60, Oct.

1993.

Kramer, Matt, "Off-line readers keep users afloat in sea of E-mail", PC Week Special Report, pp. 94, 96, 99, Oct. 4, 1993.

Wong, W.C., "Local Disk Depot--Customizing the Software Environment," 1993 LISA, Monterey, CA, pp. 51-55, Nov. 1-5, 1993.

"l0-Fill-out Forms and Input fields,"

[http://www.w3.org/MarkUp/HTMLPlus/htmlplus\\_41.html](http://www.w3.org/MarkUp/HTMLPlus/htmlplus_41.html), Nov. 8, 1993.

"l-HTML+Discussion Document," Parts 1.1-1.4,

[http://www.w3.org/MarkUp/HTMLPlus/htmlplus\\_\(2-6\).html](http://www.w3.org/MarkUp/HTMLPlus/htmlplus_(2-6).html), Nov. 8, 1993.

Letter to Dick Reisman from DRI/McGraw-Hill including literature explaining company and its data service, Nov. 18, 1993.

Mirror(lL) Misc. Reference Manual Pages Mirror(lL)Name mirror--mirror packages on remote sites URL:nic.funet.fi/FUNET/hamster.mirror.txt, Dec. 2, 1993.

"The PECOS User Guide," Catalink Direct PECOS Personal Electronic Catalog and Ordering system, Dec. 7, 1993.

"Trading Partner PC: Affordable, high-performance EDI software for Windows", TSI International Software Ltd., Copyright 1994.

Banks, M. "Welcome to . . . Compuserve for Windows", Copyright 1994.

Branwyn, "Mosaic Quick Tour for MAC", Ventana Press, Inc., Chapel Hill, NC, Copyright 1994.

Branwyn, "Mosaic Quick Tour for Windows", Ventana Press, Inc., Chapel Hill, NC, Copyright 1994.

Davis, S., "Compuserve Information Manager for Windows: Complete Handbook and Membership Kit", Copyright 1994.

Lichty, T., American Online's Internet: Easy Graphical Access--The AOL way Windows Edition, pp. 123-163, Copyright 1994.

Lichty, T., The Official American Online for Macintosh Tour Guide, 2.sup.nd Ed., Version 2.5, pp. 135-178, Copyright 1994.

Lee McLoughlin, usr/bin/perl--Mirror Master--Run Several Mirrors in Parallel, URL:strucbio. biologie.uni-konstanz.de/pdb/mirror/mm, Jan. 18, 1994.

"Financing the New Media", 1994 Intermedia Conference Proceedings on CD-ROM, San Jose, CA, Mar. 1-3, 1994.

"Industry Announcements", 1994 Intermedia Conference Proceedings on CD-ROM, San Jose, CA, Mar. 1-3, 1994.

Jack Lund, local/bin/perlbin/perl--urlget--Get a Document Given a WWW URL, URL:www.chemie.uni-dortmund.del/.about.loki/exp/urlget, Mar. 23, 1994.

Smalley, "Hermes Nears Finish Line; Bloodhound will be Part of Summer Debut", PC Week, vol. 11, No. 19, p. 31, May 16, 1994.

Google--Advanced Group Search Results; see:"Depository Use of the Federal Bulletin Board," <http://groups.google.com/groups?>

q=government+printing+office+credit+bbs&hl=en&as\_drrb=b&as\_mind=12&as\_minm=5&as\_miny=1981&as\_maxd=20&as\_maxm=5&as\_maxy=1994&selm=19.

Boly, Jean-Paul, et al., "The ESPRIT Project CAFE--High Security Digital Payment Systems", Securicom '94, Paris, Jun. 1994.

Powell Crowe, E., "Log Me On, Log Me Off", Computeruser.com, <http://www.computeruser.com/magazine/national/1204/nets1204.html>, Jul. 5, 1994.

"A Brief Overview of the Viola Engine, and its Applications,"

<http://www.viola.org/violaIntro.html>, Aug. 16, 1994.

Darrow, et al., "Microsoft Debuts Low-Cost NT 3.5", Computer Reseller News, (596):1-2, Sep. 19, 1994.

Anderson, P., "Towards a High-Level Machine Configuration System", 8th USENIX System Administration Conference, San Diego, California, Sep. 19-23, 1994.

Eirich, Thomas, "Beam: A Tool for Flexible Software Update", 1994 LISA, San Diego, CA, Sep. 19-23, 1994.

Harlander, Magnus, "Central System Administration in a Heterogeneous Unix Environment: GetNUAdmin", 1994 LISA, San Diego, CA, Sep. 19-23, 1994.

Hideyo Imazu, "OMNICONF--Making OS Upgrades and Disk Crash Recovery Easier", 1994 LISA, San Diego, CA, Sep. 19-23, 1994.

Moore, "SMS Debut Draws Crowds, Queries; Corporate Role Remains Uncertain", Computerworld, vol. 28, No. 38, p. 14, Sep. 19, 1994.



Rouillard, J. and Martin, R., "Config: A Mechanism for Installing and Tracking System Configurations", 1994 LISA, San Diego, CA Sep. 19-23, 1994.

Pei Wei O'Reilly & Associates, "Extensibility in WWW Browsers", Stanford Computer Forum WWW Workshop, 3 pages, Sep. 20-21, 1994.

Pei Wei, O'Reilly & Associates, "WWW Browsers: Extensibility Issues", Stanford Computer Forum WWW Workshop, 1 page, Sep. 20-21, 1994.

"Office New and Mail (My Choice)," <http://cpcug.org/user/mtk/offline.zip>, Oct. 18, 1994.

"Mercury Operator's Log," Oct. 26 <http://www.usc.edu/dept/raiders/logs/alpha-log941202-941224.html>, Dec. 1, 1994.

Levy, S., "E-Money (That's What I Want)", [http://www.wired.com/wired/archive/2.12/emoney\\_pr.html](http://www.wired.com/wired/archive/2.12/emoney_pr.html), Dec. 1994.

Palme, Jacob, "Issues and Concepts in Senior Online", Senior Online, Telematics DE4002, Report D6.1, Dec. 1994.

"Enable Persistent Cookies," <http://orange.kame.net/dev/cvsweb.cgi/kame/freebsd3/ports/lynx/Makefile.diff?r1=1.4&rs=1>, Dec. 15, 1994.

Murphy, Sean, "The state WWW biz", Electronic Engineering Times, p. 80, Dec. 19, 1994.

"Compuserve Information Manager for Windows--User's Guide," Copyright 1995.

"Session Tracking ", The Java Tutorial, <http://java.sun.com/docs/books/tutorial/servlets/client-state/session-tracking.html>, Copyright 1995-2001.

Grosse, Eric, "Repository Mirroring", ACM Transactions on Mathematical Software, vol. 21, No. 1, pp. 89-97, Mar. 1995.

"ecash-info: How the Web Was Won," <http://www.open4success.com/Olnews/rballard/001.html>, May 3, 1995.

Wingfield, "Netscape Inks Pact with Sun, Macromedia", InfoWorld, vol. 17, No. 22, p. 16, May 29, 1995.

Schroeder, Erica and Knowles, Anne, "Windows 95 rushes the Net", PC Week, vol. 12, No. 34, Aug. 28, 1995.

Osel, P. and Gansheimer W., "OpenDist--Incremental Software Distribution", 1995 LISA IX, Monterey, CA Sep. 17-22, 1995.

"HTML 2.0 Materials," <http://www.w3.org/MarkUp/html-spec>, Nov. 1995.

"Cookie and Privacy FAQ", <http://www.cookiecentral.com/content.phtml?area=4&id=10>, Copyright 1996-2002.

"History of Sun and the Web," <http://www.sun.co.jp:8080/sun-on-net/history.html>, Copyright 1996.

"The Evolution of Cyberspace 10.1," <http://www.javasoft.com/doc/languageenvironment/HotJava.doc.1.html>, Copyright 1996.

Froomkin, A. M., "Flood Control on the Information Ocean: Living With Anonymity, Digital Cash, and Distributed Databases", <http://www.law.miami.edu/.about.froomkin/articles/ocean1.htm>, 15 U. Pittsburgh Journal of Law and Commerce 395, 1996.

Khare, Rohit, "Session-ID", w3.org, <http://lists.w3.org/Archives/Public/www-logging/msg00066.html>, Feb. 16, 1996.

"Anonymous Delivery of Goods in Electric Commerce", IBM Technical Disclosure Bulletin, pp. 363-366, Mar. 1996.

"CGI Programming On The World Wide Web," 1st Ed., [http://www.oreilly.com/openbook/cgi08\\_03.html](http://www.oreilly.com/openbook/cgi08_03.html), Shishir Gundavaram, Mar. 1996.

"How Cookies Work (client-side persistent information)," <http://www.newnet.co.uk/help/netscape/cookies.html>, May 13, 1996.

Williams, Sara, "Internet Component Download", Microsoft Interactive Developer, pp. 49-52, Summer 1996.

"CGI Scripts and Cookies", The Perl Journal, Issue 3, <http://www.samag.com/documents/s=1282/sam01030003/>, Fall 1996.

Bailey, Craig C., "Persistent Cookies", Modem Operandi FAQ, <http://www.vermontguides.com/modem/faqteg14.htm>, Dec. 1996.

Glave, J., "PGP Lets You Take Charge of Your Cookies", <http://www.wired.com/news/print0%2C1294%2C928%2C00>, Dec. 10, 1996.

"Browser Cookies are Persistent, Not Necessarily Evil",  
<http://www.wired.com.news/topstories/0,1287,887,00.html>, Dec. 11, 1996.

"The Unofficial CookieFAQ--Version 2.54," <http://www.cookiecentral.com/faq/>,  
Copyright 1997-2001.

<http://www.cookiecentral.com/dsm.htm>, "The Dark Side of Cookies", Copyright 1997-1998.

"HTTP State Management Mechanism", <http://www.ietf.org/rfc/rfc2109.txt>, Feb. 1997.

"Browser Users to Watch Cookies," CNETNews.com, <http://news.com.com/2100-1001-277942.html?legacy=cnet>, Mar. 13, 1997.

Bruner, Rick E., "Cookie Proposal Could Hinder Online Advertising", Adage,  
<http://www.adge.com/news.cms?newsId=359>, Mar. 31, 1997.

"Chocolate Chip Cookies +Automating New!,"  
<http://tech.irt.org/articles/js016/index.htm>, Apr. 21, 1997.

"Catalink Direct, Inc.," Info Magazine,  
<http://www.cors.com/clients/profiles/catalink.htm>, Spring Ed., 1998.

Flavin, et al., "Management of distributed applications in large networks," 1988 IEEE publication, pp. 232-241, Copyright 1998.

"Classic HTTP Documents," <http://www.w3.org/Protocols/Classic.html>, May 14, 1998.

"Persistent Client State HTTP Cookies",  
[http://home.netscape.com/newsref/std/cookie\\_spec.html](http://home.netscape.com/newsref/std/cookie_spec.html), Copyright 1999.

"Session Tracking", Servlet Tutorial, <http://www.apl.jhu/.about.hall/java/Servlet-Tutorial-Session-Tracking.html>, Copyright 1999.

Greenspun, Philip, "Philip & Alex's Guide to Web Publishing," Morgan Kaufmann Publishers Inc., pp. 240-252, 260-265, 470-476, 518-521, Copyright 1999.

<http://www.automation.rockwell.com/copyright/cookies.html>, "Cookies", Copyright 1999.

Wilson, Tim, "Web Site Mining Gets Granular", InternetWeek, n 758, 1999.

Wagner, Mitch, "As Agency DoubleClick Heads Off Downtime With Redudant Systems", Internet Week, 21, Seo. 13, 1999.

McDermott, Irene E., "Come Out, Come Out, Wherever You Are: Directories on the Web", Searcher, Jun. 2000.

"In the Beginning there was NCSA Mosaic . . .  
, "<http://archive.ncsa.uiuc.edu/General/CommGroup/MosaicHistory/history.html>, Mar. 27, 2001.

"Cookie," <http://www.webopedia.com/TERM/c/cookie.html>, Jan. 4, 2002.

Catalink Direct, PECOS Personal Electronic Catalog and Ordering System diskette. Overview of New Electronic Marketing & Communications Channel From Pipeline, letter from Pat Dane of Pipeline Communications to Harland Levinson and Dick Reisman of Unet (Apr. 13, 1994 (Fax header states Apr. 14, 1995)).

Demo disk that accompanied item # 12K.

Dow Vision Broadcast Sperscification, Dow Jones & Company, Inc., Copyright 1989-92.

CRA--Philippe Rabergeau, "Client Remote Access Specifications--Preliminary," pp. 1-8, Mar. 24, 1994.

Philippe Rabergeau, "My American Dream--Map for Gateway Highway 94," Mar. 13, 1994.

Gateway Software, Inc., "For Your Information . . . ," company flier (no date).

Letter from David Stets to Dick Reisman regarding Retrieval Technologies Inc., including company overview, product descriptions for News Machine, Multi-Serve Gateway, and XFE products, features description for New Machine product (printed Nov. 12, 1991), and Press Release for the Translation Mode Access feature for News Machine, Mar. 10, 1992.

"News Machine Transaction Mode Access Interface Specification," Retrieval Technologies, Inc., revised Feb. 24, 1992.

"News Machine System Description," Retrieval Technologies, Inc., revised Jan. 1992.

"GView: A Software Solution," Delphi Internet Services Corporation (no date).

"GView Architecture Version 1.1," Delphi Internet Services Corporation (Dec. 31, 1993).

Functional Specification: GView Delphi Applications Version .03, Delphi Internet Services Corporation, Dec. 31, 1993.

"CompuServe Communications Toolbox Prospective Developer Information," CompuServe Inc., copyright 1994.

"Frequently Asked Questions about Intermind's Patents," Intermind Coporation FAQ, [http://www.intermind.com/materials/patent\\_faq.html](http://www.intermind.com/materials/patent_faq.html).

"Intermind Announces Approval of First Patent Application," Intermind Corporation Press Release, [http://www.intermind.com/inside/press\\_rel/100797\\_allow.html](http://www.intermind.com/inside/press_rel/100797_allow.html), Oct. 1997.

"About Intermind's Channel Communications Patents," Intermind's Patent Description, [http://www.intermind.com/materials/patent\\_desc.html](http://www.intermind.com/materials/patent_desc.html).

"ProComm" Reference Manual, DatastormTechnologies, Inc., 1986.

"Central Point Commute: Fast Remote Control of PCs Running Windows or DOS", Central Point Software, Inc., 1992.

"Beyond Store and Forward: Extending ESD: Xcellenet Routing Server cuts out the Middleman", Data Communications, Jun. 1993.

"CompuServe" Quick Start Guide, CompuServe, 1994.

"When Worlds Collide", CD ROM WORLD, Nov. 1994.

Intermedia Conference, (transcript), Mar. 1994., pp. 81-83 and 1 other.

"Exploring Hybrid World of CD-Rom/On-Line Products", Multimedia Week, Mar. 7, 1994.

"What is CompuServeCD" , received Apr. 29, 1994.

"Software Distribution is still a bad dream", PC Week, Mar. 28, 1994, p. 54.

"Browsers Make Navigating the World Wide Web a Snap", The New York Times, Jan. 29, 1995.

"Interactive Media Works Debuts sampleNET", Interactive Media Works, news release dated Jul. 17, 1995.

DIGITAL DELIVERY Product Data Sheet, Digital Delivery, Inc., Sep. 17, 1995.

DIGITAL DELIVERY Launches Unique Delivery Agent; Introduces First Delivery Agent to Seamlessly Provide PC Users With Fully-Formatted Content, Business Wire, Oct. 3, 1995.

"CMP is First Technology Publishers to Deliver Web Content to the Desktop", CMP News, Oct. 18, 1995.

"The Future of Audio CD's ", Microsoft CD Plus Event Page, Microsoft Corp., Dec. 4, 1995.

"Marketing via Teleshuttle", Letter from Richard Reisman to Lou Jorfan dated May 22, 1995 with enclosure, "A Short White Paper on the Teleshuttle Solution", Teleshuttle, May 5, 1995.

"LinkStar Announces Site Launcher", LinkStar Communications Corporation, Feb. 26, 1996.

"Frontier Technologies' CyberSearch 2.0 Internet Search Tool Now Works With Popular Browsers", Frontier Technologies Corporation, Apr. 5, 1996.

"CyberSearch 2.0 Beta Manual", Frontier Technologies Corporation, Apr. 5, 1996.

"CD Plus Technical Information", Microsoft CD Plus Event Page, Microsoft Corp., Dec. 4, 1995.

"Open market Announces New Desktop Software to Deliver Resources of the World Wide Web Directly to the User", OM-Express News Release, Apr. 16, 1996.

"How to Publish an OM-Express Package", OM-Express Product Information, Apr. 16, 1996.

"MarketScape WebCD 1.0 Bypasses Internet Bottlenecks", MarketScape Press Release, MarketScape, Inc., Aug. 26, 1996.

"Reality's Wealth Builder 3.0" User's Guide, Money Magazine, Reality Technologies, Inc., 1992.

"Reality's Wealth Builder" Version 3.1 Supplement, Money Magazine, Reality Technologies, Inc., Apr. 1993.

"Aren't you glad you waited?", QmodemPro for Windows Advertisement, Mustang Software, Inc.

"XcelleNet RemoteWare: Integrated Mobile Communications", Operations Automation Strategies Research Note, Jul. 26, 1993.

C. Bowman, P. Danzig, D. Hardy, U. Manber, M. Schwartz & D. Wessels "Harvest: A Scalable, Customizable Discovery and Access System" Mar. 12, 1995.

D. Hardy & M. Schwartz "Customized Information Extraction as a Basis for Recsource

Discovery" Mar. 1994.

William G. Camargo "The Harvest Broker," Dec. 1994.

D. Bilterman, G. van Rossum and R. van Liere "A Structure for Transportable, Dynamic Multimedia Documents" US-ENIX, Summer '91 Nashville, TN.

G. Almes and C. Holman "Edmas: An Object-Oriented, Locally Distributed Mail System" IEEE Transactions on Software Engineering, Sep. 1987.

G. Almes, A Black, C. Bunie and Weibe "Edmas: A Locally Distributed Mail System" IEEE, 1984.

W. Bender, H. Lie, J. Orwant, L. Teodosio, & N. Abramson "Newspace: Mass Media and Personal Computing," USENIX-Summer '91-Nashville TN.

R. Thomas, H. Forsdick, T. Crowley, R. Schaaff, R. Tomlinson & V. Travers "Diamond: A Multimedia Message System Built on a Distributed Architecture" IEEE, Dec. 1994.

S. Ramanathan & P.V. Rangan "Architectures for Personalized Multimedia" IEEE, 1994.

N. Yankelovich, B. Haan, N. Meyrowitz & S. Drucker "Intermedia: The Concept and the Construction of a Seamless Information Environment" IEEE, Jan. 1988.

D. Woelk, W. Kim & W. Luther, "An Object-Oriented Approach to MultiMedia Database," ACM 1986.

N. Borestein, C. Everhart, J. Rosenberg, A. Stoller "A Multi-media Message System for Andrew" USENIX Winter Conference Feb., 1988.

S. Jackson & N. Yankelovich "InterMail: A Prototype Hypermedia Mail System" Hypertext 91 Proceedings Dec. 1991.

E. Hoffert & G. Gretsches, "The Digital News System at Ed.ucom: A Convergence of Interactive Computing Newspaper, Television and High Speed Networks" Communications of the ACM Apr. 1991.

D. Crocker, E. Szurkowski & D. Farber "An Internetwork Memo Distribution Capability--MMDF" IEEE, ACM 1979.

Douglas Englebert "Authorship Provisions in Augment" IEEE, 1984.

J.J. Garcia-Luna-Aceves "Towards Computer-Based Multimedia Information Systems" Computer Message System 85, 1986.

Debra P. Deutsch, "Implementing Distribution Lists in Computer-Based Message Systems," Computer-Based Message Services, IFIP, 1984.

T. Purdy, D. Thorslund & N. Witchlow "Meridian SL Messaging" Computer Message Systems-85 IFIP, 1986.

Michael Tschichholz "Message Handling System: Requirements to the User Agent" Computer Message Systems-85, IFIP, 1986.

Lothar Wosnitza "Group Communication in the MHS Context" Computer Message System 85 IFIP, 1986.

Jacob Palme "Distribution Agents (mailing lists) in Message Handling Systems" Computer Message Systems 85 IFIP, 1986.

Teresa F. Lunt "A Model for Message System Security" Computer Message Systems 85 IFIP, 1986.

A. Roger Kaye "A User Agent for Multiple Computer-Based Message Services" Computer-Based Message Services, IFIP 1984.

Paul Wilson "Structure for Mailbox System Applications" Computer-Based Message Services, IFIP 1984.

J. Postel, G. Finn, A. Katz & J. Reynolds "The ISI Experimental Multimedia Mail System" Information Sciences Institute, Sep. 1986.

E. Moeller, A. Scheller & G. Schurmann "Distributed Processing of Multimedia Information" IEEE Computer Society Proceedings May 28-Jun. 1, 1990.

Richard L. Phillips "An Interpersonal Multimedia Visualization System" IEEE Computer Graphics & Applications IEEE 1991.

Jacob Palme "You Have 134 Unread Mail! Do You Want to Read Them Now?" Computer-Based Message Services IFIP, 1984.

Michael Caplinger "An Information System Based on Distributed Objects" OOPSLA '87 Proceedings.

M. Papa, G. Raguiicini, G. Corrente, M. Ferrise, S. Giurleo and D. Vitale "The Development of an Object-Oriented Multimedia Information System" Lecture Notes in Computer Science, Sep. 1994.

Silvano Maffei "A Flexible System Design to Support Object-Groups and Object-

Oriented Distributed Programming" Lecture Notes in Computer Science, Jul. 1993.

R. Gotze, H. Eirund & R. Claass in "Object-Oriented Dialog Control for Multimedia User Interfaces" Lecture Notes in Computer Science-Human Computer Interaction Sep. 1993.

Chris Maeda "A Metaobject Protocol for Controlling File Cache Management" Lecture Notes in Computer Science, Mar. 1996.

A. Joseph, A. deLespinasse, J. Tauber, D. Gifford & M. Kaashoek "Rover" A Toolkit for Mobile Information Access SIGOPS '95 1995. ACM.

Wolfgang Lux "Adaptable Object Migration: Concept and Implementation" Operating Systems Review Apr. 1995.

R. Campbell, N. Islam, R. Johnson, P. Kougiouris & P. Madany "Choices, Frameworks and Refinement" Department of Computer Science, University of Illinois, Dec. 1991.

Klemens Bohm & Thomas C. Rakow "Metadata for Multimedia Documents" SIGMOD Record, vol. 23, No. 4, Dec. 1994.

Simon Gibbs "Composite Multimedia and Active Objects" OOPSLA '91.

T. Purdin, R. Schlichting & G. Andrews "A File Replication Facility for Berkeley Unix" Software Practice and Experience, vol. 17, Dec. 1987.

A. Black, N. Hutchinson, E. Jul & H. Levy "Object Structure in the Emerald system" OOPSLA '86 Proceedings.

Daniel T. Chang "Coral: A Concurrent Object-Oriented System for Constructing and Executing Sequential, Parallel and Distributed Applications" OOPS Messenger, Apr. 1991.

A. Birrell, G. Nelson, S. Owicki & E. Wobber "Network Objects" Proceedings of the 14. sup. th ACM Symposium on Operating Systems Principles, Dec. 5-8, 1993.

Jacques Ferber "Computational Reflection in Class based Object Oriented Languages" OOPSLA '89 Proceedings.

Michael Caplinger "An Information System Based on Distributed Objects" OOPSLA '87 Proceedings.

C. Fung & M. Pong "MOCS: an Object-Oriented Programming Model for Multimedia Object Communication and Synchronization" 1994 IEEE.

T. Hase & M. Matsuda "A New Audio-Visual Control Using Message Object Transmission", 1994 IEEE, Nov. 1994.

F. Horn & J. Stefani "On Programming and Supporting Multimedia Object Synchronization" The Computer Journal, vol. 36, No. 1, 1993.

T. Little & A. Ghafoor Spatio-Temporal Composition of Distributed Multimedia Objects for Value-Added Networks, IEEE, 1991.

M. Vazirgiannis & C. Mourlas "An Object-Oriented Model for Interactive Multimedia Presentations" The Computer Journal, vol. 36, No. 1, 1993.

Cosmos Nicolaou "Architecture for Real-Time Multimedia Communications Systems", 1990 IEEE, Apr. 1990.

Ralf Steinmetz "Synchronization Properties in Multimedia Systems" 1990 IEEE, Apr. 1990.

T. Little & A. Ghafoor "Network Considerations for Distributed Multimedia Object Composition and Communications" 1990 IEEE Network Magazine, Nov. 1990.

K. Smith and S. Zdonik "Intermedia: A Case Study of the Differences Between Relational and Object-Oriented Database Systems" OOPSLA '87 Proceedings.

N. Yankelovich, B. Haan, N. Meyrowitz & S. Drucker "Intermedia: The Concept and the Construction of a Seamless Information Environment" Jan. 1988 IEEE.

S. Ramanathan & P. Rangan "Architectures for Personalized Multimedia" 1994 IEEE.

Marvin Sirbu and J.D. Tygar, "Netbill: An Internet Commerce System Optimized For Network-Delivered Services", IEEE Personal Communications Magazine, pp. 34-39, Aug. 1995.

Henrik Eriksson, "Expert System As Knowledge Services", IEEE Expert Magazine, pp. 14-19, Jun. 1996.

Budi Yuwono and Dik Lun Lee, "Wise: A World Wide Web Resource Database System", IEEE Transactions on Knowledge and Data Engineering, vol. 8, No. Aug. 1996.

H. Penny Nii "Blackboard Systems" The AI Magazine, Summer, 1986.

AppleShare, Apr. 1995.

"Manual Page for Unix NFS Mount Command".

"Manual Page for Unix FSTAB Command".

Phil Lapsley and Brian Kantor "Network News Transfer Protocol", Feb. 1986.  
Brian Kantor and Phil Lapsley, Network News Transfer Protocol, "A Proposed Standard for the Stream-Based Transmission of News", Feb. 1986.  
M. Crispin "Networking Group", University of Washington, Dec. 1996.  
Terry Gray Comparing Two Approached to Remote Mailbox Access: IMAP vs. POP, University of Washington.  
Terry Gray "Message Access Paradigms and Protocols", University of Washington, Aug. 1995.  
"Head's Up Your Sory Request," by Mike Langberg, San Jose Mercury News, CA, CD-ROM Column, Knight Ridder, Tribune Business News, File 10424154.800, Apr. 24, 1994.  
"CD-ROM's: They're Not Just for Entertainment," by Laurie Flynn, The New York Times, Sunday, Apr. 24, 1994, p. 10.  
1994 Intermediate Conference, San Jose, CA, Mar. 1-3, 1994 (7 pages).  
"Microsoft Complete Baseball" Product Brochure, Microsoft Corp. product announced Mar. 1, 1994.  
CompuServe Introductory Membership, CompuServe, print date Dec. 1992.  
"Plug and Play Making Add-In Cards Play Automatically," Intel Technology Briefing (4 pages).  
Daily Federal Register, 1993, Counterpoint Publishng, Fall 1993.  
The Federal Register, product brochure, Counterpoint Publishing, Fall 1993.  
"Counterpoint's Compact Disk Federal Register" order form, Counterpoint Publishing.  
  
"Code of Federal Regulations on CD-ROM," Counterpoint Publishing.  
"Compact Disk of Federal Register" price list, Counterpoint Publishing Co., Jul. 1, 1993.  
"Microsoft Messaging Application Program Interface (MAPI)," created Jan. 1993, Microsoft Corp.  
"WOSA Backgrounder: Delivering Enterprise Services to the Windows-based Desktop," created Jul. 1993, Microsoft Corp.  
"RemoteWare Software Licenses," fee list, Xcellenet, Inc., Aug. 16, 1993.  
"RemoteWare Server," product brochure, Xcellenet, Inc., 1992.  
"RemoteWare Communications Management System," product brochure, Xcellenet, Inc.  
"RemoteWare Mail," product brochure, Xcellenet, Inc.  
"RemoteWare Documents," product brochure, Xcellenet, Inc. 1992.  
"Remote Ware Reports," product brochure Xcellenet, Inc., 1992.  
"Software Solution Helps Pull Satellite Offices Into Network Environment," by Kathleen Doler, Investors Business Daily, Mar. 10, 1983, vol. 9, No. 231.  
"Simple MAPI," Microsoft Corp., 1993.  
The Frye Utilities for Networks, "Software Update and Distribution System," Frye Computer Systems, Inc., Copyright 1992.  
David Snyder, "The Poor Man's Mirror Script," 8 page printout of software documentation, Nov. 30, 1984.  
Fitzpatrick et al., "Automatic Mirroring of the IRAF FTP and WWW Archives," Contents of WWW Web Site, <http://iraf.nano.edu:80/project/mirror/>, as of Mar. 18, 1997.  
Online Business Tofay Archives, Home Page Press, Inc., Contents of WWW Web Site, <http://www.hpp.com/s-clickshare95.html>, as of Mar. 19, 1997.  
"Go-Get-It, INTERNET Personal Agent Thrills Net Users," NorthTech Software Inc., 1994, Contents of WWW Web Site, <http://www.hpp.com/gogetit.html>, as of Mar. 19, 1997.  
"Mirror Applescript-Find Your Salvation with a Mirror Script for the Macintosh!", Jim Matthews, Contents of <http://www.darmouth.edu/pages/softdev/fetch.html>, as of Mar. 18, 1997.  
"NetTerm-the Ultimate telnet experiencel," InterSoft International, Inc., Contents of <http://starbase.neosoft.com/'zkrr01/netterm.html>, as of Mar. 18, 1997.  
"About Marimba: A Word from Marimba's President and CEO, Kim Polese," Contents of WWW Web Site [http://www.marimba.com/about\\_executive\\_over.html](http://www.marimba.com/about_executive_over.html) as of Nov. 17, 1998.  
"Marimba Products: Marimba's Castanet.TM.: An Essential Part of Your E-Business InFrastructure," Content of WWW Web Site  
<http://www.marimba.com/product/content/product.html> as of Nov. 17, 1998.

"Mirimba Library," Contents of WWW Web Site, <http://www.marimba.com/datasheets/> as of Nov. 17, 1998.

Dow Jones News Ser.backslash.vice (DowVision.TM.) Lecture Presentation Handout, lecture presented by Charles I. Brady at the Wall Street Workstation Conference, New York City, NY, Oct. 11-12, 1989.

Lecture Presentation Notes on the Folio World-Wide-Web Retriever 3.1, presented by Jeff Gammon at the Infobase '95 Conference, Copyright 1995.

UNIX User's Reference Manual (URM), 4.3 Berkley Software Distribution Virtual VAX-11 Version, Apr. 1986 (including the description of a RDIST--a remote file distribution program--4 pages).

UNIX System Manager's Manual (SMM), 4.3, Berkeley Software Distribution Virtual VAX-11 Version, Apr. 1986 (including a document entitled "A Fast File System for UNIX," by Marshall McKusick et al., pp. SMM 14-1 through SMM 14-15).

Nachbar, Daniel, "When Network File Systems Aren't Enough: Automatic Software Distribution Revisited," Proceedings of the USENIX Association Summer Conference, pp. 159-171, Atlanta, GA, Jun. 9-13, 1986 (including a description of a method and system for updating computer files called "Track").

Mockapetris, P., "Domain Names--Implementation and Specification," Network Working Group, Request for Comments--883, Nov. 1983.

Saltzer, J., "On the Naming and Binding of Network Destinations," Networking Group, Request for Comments--1498, Aug. 1993.

P. Venkat Rangan, Harrick M. Vin, and Srinivas Ramanathan--"Designing an On-Demand Multimedia Service"--Jul. 1992.

"Intercepting Telnet Data" IBM Technical Disclosure Bulletin. Jun. 1993.

D. Chaum, A. Fiat, M.. Naor "Untraceable Electronic Cash".

Schamuel Bichler--"IC-Cards in High-Security Applications".

"Value Exchange systems Enabling Security and Unobservability"--Holger Burk and Andreas Pfitzmann--1990.

"SNPP: A Simple Network Payment Protocol", S. Dukach.

"Electronic Currency for the Internet", EM-Electronic Markets/No9/pp 30 and 31. Sep. 93.

"NetCash: A design for practical electronic currency on the Internet", G. Medvinsky and B. Clifford Neuman.

"Why Cryptosystems Fail", R. Anderson--University Computer Laboratory.

R.J. Anderson, "UEPS--A Second Generation Electronic Wallet".

Article "CaseStudy: The CIRRUS Banking Network", D. Gifford, A. Spector--vol.28-Aug. 1985.

"Electronic Wallet", S.Even and Oded Goldreich, Computer Science Dept. Technion, Haifa, Israel.

"Object Migration and Authentication", V.D. Gligor and B.G. Lindsay--IEEE Transactions on Software Engineering, vol. SE-5, No. 6, Nov. 1979.

B. Clifford Neuman, Proxy-Based Authorization and Accounting for Distributed Systems.

Ipower Technology--"The future is Secure", Brochure.

The Basic Elements of an EFTS: "The Point of Sale Terminal".

"Authentication and Delegation with Smart-cards", M. Abadi, M. Burrows, C. Kaufman, B. Lampson, Oct. 22, 1990, Revised Jul. 20, 1992.

Carnegie Mellon University Information Networking Institute, "Internet Billing Server Prototype Scope Document INI Technical Report 1993-1", Oct. 14, 1993.

Smart Card Augmentation of Kerberos, M. Krajewski, Jr. The MITRE Corporation.

Concept for a Smart Card Kerberos, M. Krajewski, Jr. The MITRE Corporation.

Article--Case Study:"The VISA Transactions Processing System" K.Harty, L.Ho, May 30, 1988.

International Standard--"Bank card originated messages--Interchange message specifications--content for financial transactions" First edition Aug. 15, 1987.

"The MD5 Message-Digest Algorithm", R. Rivest RFC 1321, Apr. 1992.

"Security Mechanisms in High-Level Network Protocols", V.L. Voydock and S.T. Kent. Computing Surveys, vol. 15, No. 2, Jun. 1983.

"Adding Capability Access to Conventional File Servers", F.M. Needham.

"A Method for Obtaining Digital Signatures and Public-Key Cryptosystems", R.L.

Rivest, A. Shamir, and L. Adleman.

Memorandum from P. Trubey Subject: "Protocol Proposal based on SNPP", Nov. 24, 1993.

"Internet Billing Service Design and Prototype Implementation", M.A. Sirbu.

"Payment Systems" --Book.

National Westminster Bank--"Clearing House Automated Payments System".

"Paying Bills Electronically".

"Achieving Electronic Privacy", D. Chaum--Aug. 1992.

"Shopping--The Electronic Mall", CompuServe--CS-597/Shopping.

MIT/I.CS/TM-419, "Notes on Community Information Systems", D.K. Gifford--Dec. 10, 1989.

"Active Message Processing: Messages As Messengers", J. Vittal 1981.

"SmartCash: A practical electronic payment system", J.N.E. Bos, D. Chaum.

American National Standard--"Financial Institution Retail Message Authentication",

American Bankers Association--Aug. 13, 1986.

American National Standard--"Interchange Message Specification for Debit and Credit Card Message Exchange Among Financial Institutions" --American Bankers Association--May 16, 1988.

"S.W.I.F.T--The industry standard for linking financial institutions." --Society for Worldwide Interbank Financial Telecommunication S.C.

"Implementing Capability-Based Protection Using Encryption", D.L. chaum and R.S. Fabry, Jul. 17, 1978.

"Cryptographic Sealing for Information Secrecy and Authentication" D.K. Gifford, Communications of the ACM vol.25, No.4, Apr. 1982.

"Development of Network Infrastructure and Services for Rapid Acquisition", J.M. Tenenbaum and A.M. Schiffman, Jan. 2, 1992.

"Computerized Commerce", D. Cohen, ISI Reprint Series, Oct. 1989.

SAEF Product Review, 1988, Chapter 2.\*

Rosenberg, Steven (ed.), "Over-the-phone PPV", Cable TV Technology, No. 27, Jun. 4, 1982, pp. 1-2.\*

Int'l Stock Exchange Preps New Networks, Network World, 23, Nov. 1988.

ART-UNIT: 2185

PRIMARY-EXAMINER: Gaffin; Jeffrey

ATTY-AGENT-FIRM: Westerlund Powell, P.C. Reisman; Richard R. Powell, Jr.; Raymond H. J.

#### ABSTRACT:

A novel electronic information transport component can be incorporated in a wide range of electronic information products, for example magazine collections, to automate the mass distribution of updates, such as current issues, from a remote server to a wide user base having a diversity of computer stations. Advantages of economy, immediacy and ease of use are provided. Extensions of the invention permit automated electronic catalog shopping with order placement and, optionally, order confirmation. A server-based update distribution service is also provided. In addition, an offline web browser system, with hyperlink redirection capabilities, a novel recorded music product with automated update capabilities and an Internet charging mechanism are provided.

46 Claims, 13 Drawing figures



[First Hit](#)   [Fwd Refs](#)

Generate Collection

Print

L4: Entry 2 of 3

File: USPT

Sep 12, 2000

US-PAT-NO: 6119101

DOCUMENT-IDENTIFIER: US 6119101 A

TITLE: Intelligent agents for electronic commerce

DATE-ISSUED: September 12, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Peckover; Douglas L.	Dallas County	TX		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Personal Agents, Inc.	Dallas	TX			02

APPL-NO: 08/ 784829   [\[PALM\]](#)

DATE FILED: January 17, 1997

## PARENT-CASE:

CROSS-REFERENCES TO RELATED APPLICATIONS This application is related to Provisional Patent Application Ser. No. 60/010,087, Filed Jan. 17, 1996. This application is also related to Provisional Patent Application Ser. No. 60/034,395, Filed Dec. 30, 1996.

INT-CL: [07] [G06 F 17/40](#), [G06 F 17/60](#), [G06 F 17/30](#)

US-CL-ISSUED: 705/26; 705/27, 705/10, 705/14

US-CL-CURRENT: [705/26](#); [705/10](#), [705/14](#), [705/27](#)

FIELD-OF-SEARCH: 705/10, 705/14, 705/26, 705/27

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

Search Selected

Search ALL

Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<a href="#">4817080</a>	March 1989	Soha	370/17
<input type="checkbox"/>	<a href="#">4984155</a>	January 1991	Geier et al.	364/401
<input type="checkbox"/>	<a href="#">4992940</a>	February 1991	Dworkin	364/401
<input type="checkbox"/>	<a href="#">4999806</a>	March 1991	Chernow et al.	364/900
	<a href="#">4999833</a>	March 1991	Lee	370/94.1

<input type="checkbox"/>				
<input type="checkbox"/>	<u>5131039</u>	July 1992	Chaum	380/23
<input type="checkbox"/>	<u>5202921</u>	April 1993	Herzberg et al.	380/23
<input type="checkbox"/>	<u>5239617</u>	August 1993	Gardner et al.	395/12
<input type="checkbox"/>	<u>5283731</u>	February 1994	Lalonde et al.	364/401
<input type="checkbox"/>	<u>5299115</u>	March 1994	Fields et al.	705/10
<input type="checkbox"/>	<u>5299125</u>	March 1994	Baker et al.	364/419.08
<input type="checkbox"/>	<u>5317677</u>	May 1994	Dolan et al.	395/77
<input type="checkbox"/>	<u>5319542</u>	June 1994	King, Jr. et al.	364/401
<input type="checkbox"/>	<u>5321620</u>	June 1994	Tanaka et al.	364/468
<input type="checkbox"/>	<u>5355327</u>	October 1994	Stent ert al.	702/187
<input type="checkbox"/>	<u>5369577</u>	November 1994	Kadashevich et al.	364/419.13
<input type="checkbox"/>	<u>5379420</u>	January 1995	Ullner	395/600
<input type="checkbox"/>	<u>5390281</u>	February 1995	Luciw et al.	395/12
<input type="checkbox"/>	<u>5414838</u>	May 1995	Kolton et al.	395/600
<input type="checkbox"/>	<u>5434777</u>	July 1995	Luciw	364/419.13
<input type="checkbox"/>	<u>5440634</u>	August 1995	Jones et al.	380/24
<input type="checkbox"/>	<u>5444823</u>	August 1995	Nguyen	395/51
<input type="checkbox"/>	<u>5473732</u>	December 1995	Chang	395/77
<input type="checkbox"/>	<u>5557518</u>	September 1996	Rosen	364/408
<input type="checkbox"/>	<u>5603031</u>	February 1997	White et al.	395/683
<input type="checkbox"/>	<u>5664115</u>	September 1997	Fraser	705/37
<input type="checkbox"/>	<u>5696965</u>	December 1997	Dedrick	707/10
<input type="checkbox"/>	<u>5717866</u>	February 1998	Naftzger	705/14
<input type="checkbox"/>	<u>5721831</u>	February 1998	Waits et al.	705/10
<input type="checkbox"/>	<u>5721832</u>	February 1998	Westrope et al.	705/27
<input type="checkbox"/>	<u>5724521</u>	March 1998	Dedrick	705/26
<input type="checkbox"/>	<u>5740549</u>	April 1998	Reilly et al.	705/14
<input type="checkbox"/>	<u>5745882</u>	April 1998	Bixler et al.	705/26

## OTHER PUBLICATIONS

Connolly, Daniel W., "Proposals for Gathering Consumer Demographics", <http://www.w3.org/pub/WWW/Demographics/Proposals.html>, pp. 1-6, Nov. 06, 1995.

Streams Online Media Development, "Streams Readies Release of Breakthrough Internet Media Planning and Assessment", <http://streams.com/press.sub.--release.html>, pp. 1-2, Aug. 31, 1995.

Tassone, Dominic, "The Lilypad White Paper", <http://www.lilypad.net/paper.html>, pp. 1-9 & 1-5 Feb. 1, 1997.

Chaum, D. "Achieving Electronic Privacy", Scientific American, Aug. 1992, pp. 96-101, copy supplied printed from world wide web site

"<http://digicash.support.nl/publish/sciam.html>" on Apr. 3, 1997 (8 pages).

Chaum, D. "Security Without Identification: Card Computers to make Big Brother Obsolete", Communications of the ACM, vol. 28, pp. 1030-1044, Oct. 1985, copy supplied printed from world wide web site  
"http://digicash.support.nl/publish/bigbro.html" on Apr. 3, 1997 (24 pages).  
International Preliminary Examination Report dated Jan. 13, 1998 (PCT/US97/01057, filed Jan. 17, 1997), 6 pages.

ART-UNIT: 275

PRIMARY-EXAMINER: MacDonald; Allen R.

ASSISTANT-EXAMINER: Myhre; James W.

ATTY-AGENT-FIRM: Wilson Sonsini Goodrich & Rosati

ABSTRACT:

A system for electronic commerce (10) having personal agents (12 and 13) that represent consumers and providers in a virtual marketplace (28). Consumer personal agents conceal the identity of the consumer and are capable of creating decision agents (14) that shop for products and assist consumers in comparing and ranking products. Provider personal agents are capable of creating demand agents (16) that quantify demand and target specific consumers without learning the identity of the consumers. Based on data generated by the activities of the decision agents and on preference data maintained by consumer personal agents, provider personal agents can quantify current, historical, and future demand, simulate demand, and target specific consumers for advertising and other messages. Provider personal agents can cooperate with consumer personal agents to collect data about reasons for sales and lost sales and to offer consideration payments to consumers. Consumer personal agents can automatically reject unsolicited messages that do not satisfy the consumer's preferences.

57 Claims, 56 Drawing figures

First Hit   Fwd Refs

End of Result Set



Generate Collection

Print

L4: Entry 3 of 3

File: USPT

Dec 2, 1997

US-PAT-NO: 5694546

DOCUMENT-IDENTIFIER: US 5694546 A

TITLE: System for automatic unattended electronic information transport between a server and a client by a vendor provided transport software with a manifest list

DATE-ISSUED: December 2, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reisman; Richard R.	New York	NY	10003	

APPL-NO: 08/ 251724   [PALM]

DATE FILED: May 31, 1994

INT-CL: [06] G06 F 13/00

US-CL-ISSUED: 395/200.9; 395/200.2, 395/226, 395/610, 395/712, 364/222.2, 364/242.4, 364/242.5, 364/918.51, 364/948.22 , 364/975.1

US-CL-CURRENT: 705/26; 707/10, 709/217, 709/227

FIELD-OF-SEARCH: 395/275, 395/200, 395/575, 395/200.2, 395/200.09, 395/201, 395/226, 395/610, 395/712, 364/222.2, 364/242.4, 364/242.5, 364/918.51, 364/948.22, 364/975.1

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

Search Selected

Search ALL

Clear

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4935870</u>	June 1990	Burk, Jr. et al.	395/200.09
<input type="checkbox"/> <u>5220501</u>	June 1993	Lawlor et al.	364/408
<input type="checkbox"/> <u>5297249</u>	March 1994	Bernstein et al.	395/356
<input type="checkbox"/> <u>5594910</u>	January 1997	Filepp et al.	395/800

## OTHER PUBLICATIONS

David Snyder, "The Poor Man's Mirror Script", 8 page print out of software documentation Nov. 30, 1994.

Fitzpatrick et al., "Automatic Mirroring of the IRAF FTP and WWW Archives", Content

of WWW Web Site, <http://iraf.nano.edu:80/project/mirror/> as of Mar. 18, 1997.  
"Online Business Today Archives", Home Page Press, Inc, Contents of WWW Web Site, <http://www.hpp.com/s-clickshare95.html> as of Mar. 19, 1997. Sep. 1995.  
"Go-Get-It, INTERNET personal agent Thrills Net Users", Northtech Software, Inc 1994, Contents of WWW Web Site, <http://www.hpp.com/gogetit.html> as of Mar. 19, 1997. 1994.  
"Mirror Applescript--Find Your Salvation with the Mirror Script for the Macintosh!", Jim Matthews, Contents of <http://www.dartmouth.edu/pages/softdev/fetch.html> as of Mar. 18, 1997. Mar. 12, 1997.  
"NetTerm--The ultimate telnet experience!", InterSoft International, Inc., Contents of <http://starbase.neosoft.com/zkrr01/netterm.html> as of Mar. 18, 1997. 1995.  
"Head's Up Your Story Request" by Mike Langberg; San Jose Mercury News, CA, CD-Rom Column; Knight Ridder/Tribune Business News, File 10424154.800, Apr. 24, 1994.  
"CD-Rom's: They're Not Just for Entertainment" by Laurie Flynn, The New York Times, Sunday, Apr. 24, 1994, p. 10.  
1994 Intermedia Conference, San Jose, CA, Mar. 1-3, 1994 (7 pgs.).  
"Microsoft Complete Baseball" product brochure, Microsoft Corp. Product announced Mar. 1, 1994.  
CompuServe Introductory Membership, CompuServe. Print date Dec. 1992.  
"Plug and Play, Making Add-In Cards Play Automatically" Intel Technology Briefing (4 pages).  
Daily Federal Register, 1993. Counterpoint Publishing, Fall, 1993.  
The Federal Register, Product brochure. Counterpoint Publishing, Fall, 1993.  
"Counterpoint's Compact Disc Federal Register" order form, Counterpoint Publishing.  
Code of Federal Regulations on CD-Rom, Counterpoint Publishing.  
"Compact Disk Federal Register" Price List, Counterpoint Publishing, Jul. 1, 1993.  
"Microsoft Messaging Application Program Interface (MAPI)" created Jan., 1993, Microsoft Corporation.  
"WOSA Backgrounder: Delivering Enterprise Services to the Windows-based Desktop", created Jul., 1993, Microsoft Corporation.  
"RemoteWare Software Licenses" fee list, Xcellenet, Inc., Aug. 16, 1993.  
"RemoteWare Server", product brochure, Xcellenet, Inc. 1992.  
"RemoteWare Communications Management System" product brochure, Xcellenet, Inc.  
"RemoteWare Mail", product brochure, Xcellenet, Inc.  
"RemoteWare Documents" product brochure, Xcellenet, Inc. 1992.  
"RemoteWare Reports" product brochure, Xcellenet, Inc. 1992.  
"Software Solution Helps Pull Satellite Offices into Network Environment" by Kathleen Doler, Investor's Business Daily, Mar. 10, 1993, vol. 9, No. 231.  
"Simple MAPI", Microsoft Corporation, 1993.  
Frye Computer Systems, Inc, "Software Update & Distribution System" .RTM.1992, 1-201.

ART-UNIT: 237

PRIMARY-EXAMINER: Lee; Thomas C.

ASSISTANT-EXAMINER: Kim; Ki S.

ATTY-AGENT-FIRM: Handal & Morofsky

ABSTRACT:

A novel electronic information transport component can be incorporated in a wide range of electronic information products, for example magazine collections, to automate the mass distribution of updates, such as current issues, from a remote server to a wide user base having a diversity of computer stations. Advantages of economy, immediacy and ease of use are provided. Extensions of the invention permit

automated electronic catalog shopping with order placement and, optionally, order confirmation. A server-based update distribution service is also provided.

32 Claims, 6 Drawing figures

200006032 A, CZ 200004649 A3, EP 1090494 B1, DE 59804541 G, RU 2191482 C1

L10: Entry 20 of 31

File: DWPI

Jan 16, 2003

DERWENT-ACC-NO: 2000-117065

DERWENT-WEEK: 200316

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Method of offering, ordering and selling goods and services via mobile telephone is particularly suitable for supporting supplier of limited number of goods and services

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
L9	31

Display Format:  [Previous Page](#)[Next Page](#)[Go to Doc#](#)

## Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 21 through 30 of 31 returned.

☐ 21. Document ID: EP 911771 A1, DE 69804563 E, FR 2769729 A1, EP 911771 B1

Using default format because multiple data bases are involved.

L10: Entry 21 of 31

File: DWPI

Apr 28, 1999

DERWENT-ACC-NO: 1999-256425

DERWENT-WEEK: 200238

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Product management in large shops and communal restaurants

INVENTOR: COUSIN, L; LAFOND, P

PRIORITY-DATA: 1997FR-0012917 (October 15, 1997)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 911771 A1</u>	April 28, 1999	F	011	G07F007/00
<u>DE 69804563 E</u>	May 8, 2002		000	G07F007/00
<u>FR 2769729 A1</u>	April 16, 1999		000	G06F017/60
<u>EP 911771 B1</u>	April 3, 2002	F	000	G07F007/00

INT-CL (IPC): G01 S 5/04; G06 F 17/60; G06 F 19/00; G06 F 151:00; G07 F 7/00; G07 G 1/00; G08 C 17/02

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 22. Document ID: US 5895463 A

L10: Entry 22 of 31

File: DWPI

Apr 20, 1999

DERWENT-ACC-NO: 1999-276578

DERWENT-WEEK: 199923

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Electronic reference device with data item member accessing ability in electronic computer system - links all members of search list by set of interconnecting next entry pointers corresponding to members of data item list

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------



- ☐ 23. Document ID: WO 9909499 A1, AU 9887215 A, EP 1004087 A1, BR 9811326 A, JP 2001516086  
W

L10: Entry 23 of 31

File: DWPI

Feb 25, 1999

DERWENT-ACC-NO: 1999-190251

DERWENT-WEEK: 199916

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Electronic ordering and vending system, particularly for facilitating remote automated ordering and provision of goods or services

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	---------

- ☐ 24. Document ID: US 5850442 A

L10: Entry 24 of 31

File: DWPI

Dec 15, 1998

DERWENT-ACC-NO: 1999-069980

DERWENT-WEEK: 199906

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: World-wide business transaction conducting system using Internet - has security servers from which encryption keys are obtained that are authenticated by selective user terminals for ensuring origin and authenticity of business transactions

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	---------

- ☐ 25. Document ID: JP 09190479 A

L10: Entry 25 of 31

File: DWPI

Jul 22, 1997

DERWENT-ACC-NO: 1997-422071

DERWENT-WEEK: 199739

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Data processing system for token dispenser set in restaurants - includes data processors which changes display state, size and layout of images displayed on indicator of ticket dispenser, according to ticket sales situation

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	---------

- ☐ 26. Document ID: JP 09149810 A

L10: Entry 26 of 31

File: DWPI

Jun 10, 1997

DERWENT-ACC-NO: 1997-357916

DERWENT-WEEK: 199733

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Guarantee case for storing expensive metal products like commemoration gold

TITLE: A method and a system for obtaining services using a cellular telecommunication system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 4. Document ID: EP 1096449 A2

L10: Entry 4 of 31

File: EPAB

May 2, 2001

PUB-NO: EP001096449A2

DOCUMENT-IDENTIFIER: EP 1096449 A2

TITLE: Tokenless vending system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 5. Document ID: WO 9967938 A1

L10: Entry 5 of 31

File: EPAB

Dec 29, 1999

PUB-NO: WO009967938A1

DOCUMENT-IDENTIFIER: WO 9967938 A1

TITLE: METHOD FOR OFFERING, ORDERING AND SELLING GOODS AND SERVICES

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 6. Document ID: GB 2258749 A

L10: Entry 6 of 31

File: EPAB

Feb 17, 1993

PUB-NO: GB002258749A

DOCUMENT-IDENTIFIER: GB 2258749 A

TITLE: DATA PROCESSING AND HANDLING SYSTEM

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 7. Document ID: WO 9006565 A1

L10: Entry 7 of 31

File: EPAB

Jun 14, 1990

PUB-NO: WO009006565A1

DOCUMENT-IDENTIFIER: WO 9006565 A1

TITLE: A SYSTEM FOR DISPENSING MEASURED AMOUNTS OR PACKAGES OF PRODUCTS BY MEANS OF AUTOMATIC VENDING MACHINES

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 8. Document ID: GB 2185342 A

L10: Entry 8 of 31

File: EPAB

Jul 15, 1987

PUB-NO: GB002185342A  
DOCUMENT-IDENTIFIER: GB 2185342 A  
TITLE: Vending machine

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draws De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

☐ 9. Document ID: DE 3501188 A1

L10: Entry 9 of 31

File: EPAB

Jul 31, 1986

PUB-NO: DE003501188A1  
DOCUMENT-IDENTIFIER: DE 3501188 A1  
TITLE: Gaming machine with a coin device

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draws De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

☐ 10. Document ID: FR 2563927 A1

L10: Entry 10 of 31

File: EPAB

Nov 8, 1985

PUB-NO: FR002563927A1  
DOCUMENT-IDENTIFIER: FR 2563927 A1  
TITLE: Improvement to machines of the type put into operation by means of the insertion of tokens or coins, for the production and distribution to the public of edible products, in particular fries, such as

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draws De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
L9	31

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

## Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 11 through 20 of 31 returned.

☐ 11. Document ID: EP 57527 A1

Using default format because multiple data bases are involved.

L10: Entry 11 of 31

File: EPAB

Aug 11, 1982

PUB-NO: EP000057527A1

DOCUMENT-IDENTIFIER: EP 57527 A1

TITLE: Menu selection device for children.

PUBN-DATE: August 11, 1982

## INVENTOR-INFORMATION:

NAME

COUNTRY

HECTOR, ROGER D

JENKINS, HARRY H JNR

STUBBEN, DAVID R

US-CL-CURRENT: 345/168

INT-CL (IPC): G09F 9/00; G08B 5/36

EUR-CL (EPC): G08B005/36; G09F009/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 12. Document ID: NN9301151

L10: Entry 12 of 31

File: TDBD

Jan 1, 1993

TDB-ACC-NO: NN9301151

DISCLOSURE TITLE: Methodology for Serializing Asynchronous Network Requests Over Multiple Paths.

SECURITY: Use, copying and distribution of this data is subject to the restrictions in the Agreement For IBM TDB Database and Related Computer Databases. Unpublished - all rights reserved under the Copyright Laws of the United States. Contains confidential commercial information of IBM exempt from FOIA disclosure per 5 U.S.C. 552(b)(4) and protected under the Trade Secrets Act, 18 U.S.C. 1905.

COPYRIGHT STATEMENT: The text of this article is Copyrighted (c) IBM Corporation 1993. All rights reserved.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

---

☐ 13. Document ID: WO 2003093924 A2, US 20030208718 A1

L10: Entry 13 of 31

File: DWPI

Nov 13, 2003

DERWENT-ACC-NO: 2003-875976

DERWENT-WEEK: 200402

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Printed promotional item designing method for e.g. labels, coupons, involves providing proposed design for printed item to user computer based on received order information

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	K00C	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--	--------	------	---------

---

☐ 14. Document ID: US 20030169259 A1

L10: Entry 14 of 31

File: DWPI

Sep 11, 2003

DERWENT-ACC-NO: 2003-843632

DERWENT-WEEK: 200378

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Data order preserving method for hardware devices, involves polling synchronization register to determine arrival of token of path received by convergence unit and writing data in another path after arrival of token

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	K00C	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--	--------	------	---------

---

☐ 15. Document ID: US 20030208411 A1, WO 200199005 A1, AU 200169881 A

L10: Entry 15 of 31

File: DWPI

Nov 6, 2003

DERWENT-ACC-NO: 2002-114629

DERWENT-WEEK: 200374

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Method of sending a package to a customer while maintaining customer privacy by receiving orders with unique customer identifiers from which the shipper derives the delivery address

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	K00C	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--	--------	------	---------

---

☐ 16. Document ID: AU 200123174 A

L10: Entry 16 of 31

File: DWPI

Aug 30, 2001

DERWENT-ACC-NO: 2002-090577

DERWENT-WEEK: 200213

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Online token based transaction system for air-ticket reservation has

purveyor which provides goods and services corresponding to selected rights token  
programmed in smart card of purchaser

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 17. Document ID: WO 200131593 A1, AU 200111184 A

L10: Entry 17 of 31

File: DWPI

May 3, 2001

DERWENT-ACC-NO: 2001-625227

DERWENT-WEEK: 200172

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Delivery system of product ordered through network, delivers ordered product  
only when token number input by recipient matches token number allocated for  
ordered product

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 18. Document ID: US 6141666 A

L10: Entry 18 of 31

File: DWPI

Oct 31, 2000

DERWENT-ACC-NO: 2001-181094

DERWENT-WEEK: 200214

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Network server used in marketing customer services, includes database unit  
which dynamically configures data stored in the network server in response to the  
identity of the source

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 19. Document ID: US 20030097325 A1, WO 200062187 A2, AU 200040801 A, EP 1177506 A2, JP  
2002541588 W

L10: Entry 19 of 31

File: DWPI

May 22, 2003

DERWENT-ACC-NO: 2001-122650

DERWENT-WEEK: 200336

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Transactional information display method for electronic trading system,  
involves displaying bid icon, corresponding to bid of items, at location along axis  
of values

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 20. Document ID: ES 2179501 T3, WO 9967938 A1, AU 9877556 A, EP 1090494 A1, NO

coin, token, orders, jewels, adornment - has sealing steel made of broad and brittle fracture material stuck to interior part of oblong recess part

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 27. Document ID: DE 69430866 E, WO 9423377 A1, CA 2094880 A, AU 9465527 A, US 5479654 A, EP 692121 A1, EP 1184787 A1, EP 692121 B1

L10: Entry 27 of 31

File: DWPI

Aug 1, 2002

DERWENT-ACC-NO: 1994-333420

DERWENT-WEEK: 200258

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: File difference representations for computer file protection and back=up systems - uses token table comprising different hashing mathematical representations, e.g. XOR, of fixed equal length character segments of file

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 28. Document ID: GB 2258749 A

L10: Entry 28 of 31

File: DWPI

Feb 17, 1993

DERWENT-ACC-NO: 1993-054721

DERWENT-WEEK: 199307

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Data processing and handling system for e.g. stock control - comprises stations at which machine readable data on token allocated to user may be read and updated to facilitate ordering of goods and services by user

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 29. Document ID: SU 1571089 A

L10: Entry 29 of 31

File: DWPI

Jun 15, 1990

DERWENT-ACC-NO: 1991-130905

DERWENT-WEEK: 199118

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Magnetisation sintering of iron ore in fluidised bed furnace - includes altering solid and gaseous fuel proportions as function of solid fuel volatiles concn.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 30. Document ID: WO 8901659 A, EP 382744 A, JP 02504658 W, EP 382744 B1, DE 3854049 G,

CA 1338511 C

L10: Entry 30 of 31

File: DWPI

Feb 23, 1989

DERWENT-ACC-NO: 1989-068989

DERWENT-WEEK: 199741

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Manual food service system, e.g. for fast food - has food preparation and assembly stations cooperable with order payment station

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

Clear	Generate Collection	Print	Fwd Refs	Blwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
L9	31

Display Format:  [Previous Page](#)[Next Page](#)[Go to Doc#](#)



# Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 31 through 31 of 31 returned.

☐ 31. Document ID: EP 249484 A, GB 2192477 A, GB 2192477 B, US 4869500 A

Using default format because multiple data bases are involved.

L10: Entry 31 of 31

File: DWPI

Dec 16, 1987

DERWENT-ACC-NO: 1988-022639

DERWENT-WEEK: 198804

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Vending machine with skill gaming device - has memory receiving signals from game circuit indicating prize value which is compared with vending value to produce total

INVENTOR: WILLIAMS, G A

PRIORITY-DATA: 1986GB-0014278 (June 12, 1986), 1988US-0158282 (February 18, 1988)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 249484 A</u>	December 16, 1987	E	006	
<u>GB 2192477 A</u>	January 13, 1988		000	
<u>GB 2192477 B</u>	March 14, 1990		000	
<u>US 4869500 A</u>	September 26, 1989		005	

INT-CL (IPC): A63F 9/00; G07F 17/32

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
L9	31

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

ds and Services

This invention relates to a method of offering for sale, ordering and selling goods and services. In particular this invention relates to a method of offering for sale, ordering and selling goods and services in which said goods and services 5 are offered for sale by at least one vendor to a multiplicity of participants in a mobile radio network by means of an offer identification which are <sic. is> received by interested participants in their mobile devices and transmitted to a service center via the mobile radio network.

Described in the patent US 5,345,501 is a telephone central office switch<sup>10</sup> based system for processing and forwarding orders of customers to suppliers which, in addition to the central office, comprises a voice recognition unit. By means of voice prompts, a customer is asked to enter his PIN (Personal Identification Number) by means of selection keys of his telephone. After successful entry and verification of the PIN number, a product, for example a 15 video cassette with a particular film title, is selected by the customer in several steps (categories, subcategories) by means of selection keys or language, and this is confirmed by means of stored responses.

Payment for the desired product takes place via credit card, the number of which must be entered by the customer, or via billing by the telephone operator. Such systems and similar ones are <sup>20</sup> known for the most varied applications; using such systems is often considered inconvenient and tedious by customers.

Described in WO 90111661 is a catalog ordering system connected to the public switched telephone network (PSTN) in which a customer dials the number of an order service, and by means of spoken instructions is instructed to enter one <sup>25</sup> or more order numbers, it being possible for entered orders to be repeated to the customer and to be confirmed by him. Then, upon request of a supplier, the entered order numbers are transmitted to this supplier via the telephone line together with the telephone number of the customer. For increased security, the entering of an account number can be additionally requested from the customer. <sup>30</sup>

This system functions in a similar way to that in the patent described above, and offers no automatic completion of payment.

Described in the patent US 4,797,913 is an order system in which products can be ordered directly by dialing a telephone number. The order system described in US 4,797,913 is based on a LATA (Local Access Transport Area)

switched network in which Feature Group D services are available which are selected by means of the first two digits "10" of said telephone number. Within this Feature Group D services, an interim switched network or in particular an order service center can be dialed by means of the subsequent three digits, ten s digits still being available for identification of a supplier and his products. The order system thus described is especially suitable for catalog shipping services; how indications about quantities are transmitted or how the identity of the client is established remains open, however, since only the telephone number of the telephone used for the order is known.

<sup>10</sup> What all the order methods or systems described above have in common is that they do not make it possible to transmit ordered products, in particular ordered information, automatically and directly to the interested customer.

Moreover these described systems do not make possible any automatic identification of the customer, but instead are based on his telephone number, <sup>15</sup> and in some cases are based additionally on numbers which the customer has to enter. Furthermore the

address information for the customer is not supplied by these systems, but instead administration thereof must be assumed by the suppliers.

Described in the patent application WO 96125006 is an interactive 20 broadcast system, in which customers can call a call center to order goods and services automatically via the telephone lines by means of a messaging device, which call center supplements, with the aid of a data base, the order data transmitted by the customer, and passes it on, together with a customer identification, to respective suppliers, who, for their part, deliver goods and 25 services to the customer identified through the customer identification.

Described in the not yet published patent application PCT/CH96100464 is a method and system for transmission of orders, in particular for transmission of product orders, orders for information, or payment transactions, in a telecommunications network, according to which said orders are transmitted by a multiplicity of 30 participants in a telecommunications network, particularly, but not exclusively, a mobile radio network, to at least one supplier. Orders are thereby transmitted in short messages, not merely as bit streams, through the telecommunications network, but instead the data contained therein are linked to participant identification data from the participant data base of the telecommunications 35 network. The method finds application in a telecommunications network in which the identity of the calling participant is recognized by the service center of this network with each call, for example a mobile radio network based on the GSM standard. The participant needs only to enter an offer identification of the goods or services offered for sale that contains at least an identification of these goods 5 or services as well as an identification of the respective supplier. Order data dependent upon this said offer identification are transmitted by means of short messages via said telecommunications network to a service center, which recognizes the customer and links at least certain of the data contained in said short message to participant identification data, and transmits the linked data to is the respective supplier.

It is an object of this invention to propose new methods of offering for sale, ordering and selling goods and services which are in particular also suitable for supporting vendors of goods and services having in each case a limited available number.

15 This object is achieved according to the invention through the elements of the characterizing part of the independent claims. Further preferred embodiments following moreover from the dependent claims and from the specification.

In particular, this object is preferably achieved in that an indication of quantity is stored for at least certain of the goods and services offered for sale 20 which corresponds to the limited available quantity of the respective item or service offered for sale, in that, for a received order, a token is generated for at least certain goods or services offered for sale, if a respective item or a respective service is available, this token being transmitted to the respective vendor and to the respective participant, and for each received order for which a token was 25 generated, or respectively transmitted, the corresponding quantity indication about the available number is decreased by increments.

Goods and/or services offered for sale are preferably offered to the participants via different communications channels, at least certain offers containing an offer identification.

30 An ordering participant is preferably recognized with each order and, on the basis of his identification, order data transmitted by him are linked to corresponding participant identification data.

The offer for a particular item being offered for sale or for a particular service being offered for sale is preferably stopped when the available number

3a

indicated by the respective quantity indication is zero. In a variant, the offer can also be stopped when the offer has expired, i.e. when an expiration date for an item or service being offered for sale has passed, when the vendor withdraws them < sic. it> and/or when the supply conditions, for example the price or the 5 availability of the products offered for sale, have changed.

At least certain of the tokens which are transmitted to the participant, via a mobile radio network to his mobile device, are stored in a chipcard removably connected to this mobile device, and at least certain of the tokens stored on this chipcard can be used at an admission control point as an admission ticket or as 10 the link to a set of admission tickets.

15

20

In a variant, interested participants can preferably additionally enter an order quantity with which they can order more than one item or one service and which is transmitted together with the order data.

With such multiple orders, depending upon the variant, if sufficient goods

s or services are available, a plurality of tokens are generated, corresponding to the ordered quantity, and are transmitted to the vendor, respectively to the participant, or one token is generated and transmitted, which contains a delivery number that corresponds to the ordered quantity. If only an insufficient quantity of the ordered goods or services is available, depending upon the variant, at least the 10 corresponding number of tokens is generated and transmitted or one token with the corresponding delivery number. The quantity indication on the goods and services available is decreased by increments by the number delivered.

In a variant, the solvency of an interested participant is checked prior to generation of a token, or respectively before its transmission.

is A negative decision is preferably transmitted to an interested participant, for example over the mobile radio network, if a corresponding token is not generated for his received order, or respectively cannot be transmitted, either because he is not solvent, because sufficient goods or services are not available, or because the offer has expired or has been withdrawn.

20 Depending upon the variant, the costs of an item or service ordered by a participant, for which a token was generated, or respectively transmitted, are charged to him in his bill for the communications costs, for example in the mobile radio network, in a bill from a financial services provider, or are charged directly to an electronic account in the chipcard removably connected to his mobile device.

2s In a variant, vendors can pass on to an automated offer server information

about goods and services to be offered for sale.

An embodiment of the present invention will be described in the following with reference to an example. The example embodiment is illustrated by the following appended figures:

30 Figure 1 comprises a block diagram, which illustrates schematically the data flow between a vendor of goods and/or services, a participant in a mobile radio network, a service center of this mobile radio network, an offer server, a mediating module as well as a sales module.

Figure 2 shows flow charts which illustrate, schematically and by way of example, the program flow of the programmed software process for receiving and processing offers and orders in a sales module.

The reference numeral 1 refers to a vendor of goods and/or services, which s we also combine under the designation "products" in the following description, whereby this vendor 1 would like to offer for sale in particular products of limited available quantity in each case. This vendor 1 can be organizations, for example small, medium-sized or large enterprises, which manufacture or sell goods or offer for sale or mediate services, or it can be individual, or groups of, private persons 10 who would like to market products. Besides the limited available number of these products, which can also be very small and can comprise, for example, only a single or a few products, these products can also be of limited life, i.e. can have

an expiration date, for example involved can be an admission ticket to a sports event or a concert that takes place only on a particular day, or involved can be is perishable products, such as foodstuffs. The product can also be information, for example text, audio, video and/or multimedia data which are ordered by the participant and are transmitted to him by the vendor 1 via a suitable transmission channel, for example as SMS short messages or USSD data via a mobile radio network, as e-mail over the Internet, as DAB (Digital Audio Broadcasting) 20 program-accompanying data, etc. A vendor 1 can transmit data about products to be offered for sale, for example the name or the designation of the product, possibly a short description, a number indication with respect to available quantity, price information, as well as an expiration date (still valid at the time of the offer), if applicable, to a service 2s provider 3 responsible therefor. This data flow indicated by the arrow 2 can take place by means of paper, in that, for example, a form intended for this purpose is filled out and is passed on to the service provider or in that it is transmitted to the service provider 3 by means of fax. The data flow of these offer data 2 can also take place by electronic and automatic way, however, in that the service provider 30

3 is represented by an offer server 3 to which a vendor 1 can pass on the described offer data via a computer terminal. The respective terminals can be installed at a place accessible to the public, for example, and can be connected to the offer server 3 via fixed networks or mobile networks, or the input terminal can be a program application on the Internet that can be used by a vendor 1 via his 3sPC. There are numerous possibilities which can be executed by one skilled in the art. In addition to the offer data described, information about the vendor 1 also has to be given to the service provider 3, which, depending upon the embodiment variant, has to be transmitted again each time or is stored in a data base so that an unambiguous identification of the vendor 1 suffices, in addition to the offer data.

In the data flow indicated by the arrow 4 in Figure 1, the offer information of 5 the vendor 1 captured by the service provider 3, respectively by the offer server 3, is transmitted, together with the identification of the vendor, to the mediating module 5, for example over a fixed network. If, on the basis of the possible expiration date, it is determined that the product has expired, an error message is transmitted to the service provider 3, respectively to the offer server 3, which message can be passed on by the service provider 3, or respectively the offer server 3, to the respective vendor 1. Otherwise, if the product has not expired, an offer identification is generated, for example in the mediating module 5, which identification comprises at least data for identification of the product to be offered for sale as well as of the respective vendor 1. The offer identification can be 15 communicated to the respective vendor 1 in a confirmation. Depending upon the embodiment variant, this can take place from the mediating module 5 via the service provider 3, respectively the offer server 3, or directly from the mediating module 5 to the vendor 1. The offer identification can also be generated in the offer server 3, and then confirmed to the vendor 1 and transmitted to the 20 mediating module 5. Finally, it is also possible for the offer identification to be defined directly by the vendor 1 on the basis of format models, and then checked as to correctness and clarity by the offer server 3 or by the mediating module 5. Such an offer identification can comprise a plurality of fields. A first field contains, for example, a designation of the vendor 1, for example a mnemonic 25 (code) of a plurality of alphanumerical symbols. A second field, which is separated from the first through a field delimiter, for example, contains a product identification which designates a particular item, a service or the supply of information and can likewise comprise a plurality of alphanumerical symbols. A further field, for example again separated from the product identification through a 30 field delimiter, contains a check sum which is determined from the preceding fields through an error checking or error correcting algorithm known to one skilled in the art. Fields of constant, predefined length or fields with length indications can also be used, instead of field delimiters.

In the data flow indicated by the arrow 8, certain offer data are transmitted 35 by the mediating module 5 to the sales module 9. The data transmitted in the data flow 8 comprise information on identification of the vendor 1 and of the products to be offered for sale as well as indications about the available quantity of the product offered, optionally the price of the product, as well as possibly the expiration date of the product. The sales module 9 can be achieved by one skilled in the art as a programmed software process, which can be installed on an own, separate or on a common computer together with other software 5 applications. The programmed software process, which is illustrated in Figure 2 by way of example, receives the offer information from the mediating module 5 in step 100, and if the possible expiration date of the offered product has not yet passed, stores it in a data base in step 101, which data base is installed by one skilled in the art on the same computer or on another computer accessible to the to sales module 9.

The region of Figure 1 enclosed by the triangle 30 of broken lines comprises parts, in particular a service center 11, from the system and method for transmission of orders, which was described above, as well as communications channels 61, 62, 63 which have

been described in the not yet published patent 15 application in the name of the (present) applicant PCT/CH98/00148 concerning a data broadcasting system and data broadcasting method.

The offer identification, generated by the mediating module 5, respectively received therefrom by a vendor 1, can be broadcast, typically together with additional information on the product to be offered for sale, according to the 20 above-mentioned data broadcasting system and data broadcasting method via one or more different possible communications channels, so-called broadcasting channels 61, 62, 63, to a multiplicity of participants 7. These data are thereby stored in an information data base according to this above-mentioned data broadcasting system and data broadcasting method, where they can be intended 25 to be transmitted to particular participants 7 or participant groups via different specific broadcasting channels 61, 62, 63. The broadcasting of data from the information data base takes place automatically according to transmission criteria, which comprise the address of a participant 7 or a participant group, indications about the data to be transmitted as well as about a broadcasting channel 61, 62, 30 63 to be used. Possible broadcasting forms and broadcasting channels are, for example, messages in digital mobile radio networks, for example SMS short messages or USSD data, messages in pager systems, addressed messages, such as, for example, e-mail, via the Internet, teletext pages in a teletext channel, program-accompanying data in a DAB (Digital Audio Broadcasting) channel, fax 35 messages in a public telecommunications network, display of the data on a display panel, or printing of the information in catalogs or other printed media. According to this above-mentioned data broadcasting system and data broadcasting method, the data can also comprise, for example, other text information and/or multimedia data in addition to the described offer identification for ordering goods and/or services. It is also possible that the mentioned transmission criteria can be administered by the participants 7 via a s telecommunications system, for example over the Internet or by means of special messages over a mobile radio network. In this way the participants 7 can, for example, establish categories, themes, types or vendors of information, in particular goods, groups of goods, services and/or groups of services in which they are interested, and they can establish transmission times and/or periodicity. to The transmission of data can also be bound to certain events by means of corresponding transmission criteria.

A participant 7 in a mobile radio network 20, for example a GSM or UMTS network, who gains knowledge about the product offered and in particular knowledge about the corresponding offer identification, via the mentioned iscommunications channels 61, 62, 63, can order this product according to the described method for transmission of orders. Therefore the offer identification, entered by the interested participant 7 in his mobile device, for example a mobile radio telephone or a portable personal computer, for example a laptop or palmtop with corresponding mobile radio functionality, or received by this mobile device, 20 can be used as the basis for transmitting a corresponding short message, for example an SMS short message or USSD data, via a mobile radio network, for example a GSM or UMTS network, to the service center 11 by means of the data flow indicated by the

arrow 10. The transmission and handling of the data in the short messages to the, and in the, service center 11 takes place, for example, 2s according to the SICAP method, which has been described, inter alia, in EP 689 368, or according to a similar method or based on WAP (Wireless Application Protocol).

The service center 11 comprises, for example, a Short Message Service Center (SMSC) and a module for execution of the above-mentioned SICAP 30 method; the participant 7 can thus be recognized on the basis of the identification of the received short message, and, according to the SICAP method, the content of the short message can be passed on to a respective application, established through a data header of the short message, for further processing. In this application, which can likewise take place in the service center 11, at least certain 3s of the order data contained in the short message are linked with identification data of the recognized participant 7 from a participant data base of the mobile radio network 20 accessible to the service center 11. The linked identification data comprise at least the address of the interested participant 7, possibly also his language and also further information, for example an additional billing and/or delivery address or indications about the solvency of the respective participant 7.

In the data flow indicated by the arrow 12, the linked order data, which 5 consequently comprise at least the mentioned identification data of the participant 7 as well as information on the identification of the offered or respectively ordered product, and of the respective vendor 1, are passed on to the mediating module 5.

In the data flow indicated by the arrow 13, the mediating module 5 passes on the order data, received from the service center 11, to the sales module 9, in which, in step 200, they are received and further processed by the programmed software process illustrated in Figure 2, as will be described now in more detail.

In an embodiment variant, in step 201, the solvency of the participant 7 who has given the respective, received order, is first checked. This can take place on the basis of information stored in a data base accessible to the sales 15 module 9, for example a data base which is administered by the operator of the mobile radio network 20 or by a financial services provider. In a variant, information on the solvency of the participant 7 can be transmitted to the sales module 9 also by the service center 11, or respectively by the mediating module 5, together with the linked order data. If the solvency of the participant 7 cannot 20 be guaranteed, a negative decision is sent to the respective participant 7 with the corresponding justification in step 203 of the software program, for example by means of short messages, e.g. an SMS short message or USSD data, via a mobile radio network 20, for example a GSM or UMTS network. For this purpose, the sales module 9 together with the respective computer hardware are provided 25 with the corresponding communications means by one skilled in the art. The negative decision, giving the reason, is received by the mobile device of the respective participant 7 via the mobile radio network 20 and is shown on the display of this mobile device. Otherwise, if the solvency of the participant 7 is guaranteed with respect to the order, the software program of the sales module 9 30 continues with step 202.

Checked in step 202 is whether the available quantity of the ordered product is greater than zero at the moment. If the ordered product is no longer available, i.e. if the



available quantity is zero, a negative confirmation with the corresponding justification is sent, as mentioned above, to the respective participant 7 in step 203 of the software program. Otherwise, in step 204, a token is generated which represents an unambiguous certificate, and which also

contains, for example, information for identifying the ordered product and/or the respective vendor 1. The token can be encrypted, for example, using means known to one skilled in the art, and can be provided with a digital signature in order to guarantee its authenticity and ensure security. It should be mentioned here that in an alternative embodiment a number of tokens corresponding to the available offered quantity of products can be generated and stored already during receiving and storing of the offer in steps 100 and 101, whereby step 204 accordingly becomes unnecessary in this form. In a step not explicitly shown, if applicable, a check is made by the software 10

program on the basis of the expiration date as to whether the product has not expired at the time of ordering. If the product has actually expired, this will be communicated to the respective participant 7, in a similar way as described above, by means of a negative confirmation with the corresponding justification. Besides the expiration date, there can of course be also other reasons why an offer is no longer valid. For example, an offer can be withdrawn by the vendor and/or supply conditions can have changed, for example the price or the availability of the offered products. Corresponding functions for receiving information relating thereto, for example from the respective vendor 1, and for their linking prior to the generation and transmission of a token can be implemented by one skilled in the art.

In step 205, the generated token, together with indications about the respective participant 7, for example his identity and address, and with information on the respective ordered product and the respective vendor 1, for example in the form of the offer identification indicated in the order, can be 25

transmitted to the vendor 1. Depending upon the embodiment variant, and possibly also depending upon the respective product, this can be carried out, in the data flow indicated by the arrow 15 in Figure 1, in electronic form via a fixed network, for example by means of EDI or e-mail, via a mobile radio network or through conventional means with paper via the post or by means of fax.

30 In step 206, the generated token is transmitted to the respective participant 7, together with a positive confirmation. The transmission takes place, for example, by means of short messages, for example an SMS short message or USSD data, over a mobile radio network 20, for example a GSM or UMTS network. This positive confirmation is received by the mobile device of the 35 respective participant 7 and is shown on the display of the mobile device. The token is stored, for example, on a chipcard which is removably connected to the mobile device, and can be used at a later point in time at an admission control

point as an admission ticket, for example, or as a link to a set of admission tickets, for example at a sports event, a concert, a play, etc. For this purpose and other purposes, the token can be stored, for example on the chipcard, e.g. an SIM card (Subscriber Identity Module) and/or a chipcard in accordance with the OpenCard type, as an applet, e.g. a Java applet, which then finds application as a ticketing applet at a corresponding, automated admission control point, for example in that it is transmitted to this admission control point by means of a contactless

interface. With such types of products, the token is correspondingly integrated by the vendor 1 into his admission process, so that the admission control can run to

correctly. In general, a token stored on the chipcard can serve at a later point in time as a record for the successful ordering of a respective product, and can be cancelled again, for example, with its exchange for the respective equivalent, i.e. the handing over of an item or the execution of, or respectively admission to, a service.

is In step 207, the ordered product, transmitted in the form of a token, is billed to the participant 7. This can be resolved in such a way that the costs for the ordered product as well as indications on identification of the respective participant 7 are entered into a data base accessible to the sales module, for example the same data base in which the offers are stored, or the necessary data 20 are transmitted to a financial services provider. If the billed costs are stored by the sales module in a data base, they can be processed in batch mode at a later point in time in that they are transmitted periodically to a financial services provider for further processing and charging to the participant 7, for example, or in that the costs to the respective participant 7 are added directly to his bill for the 2s communications costs in the mobile radio network 20. In a further variant, the costs can be charged to the respective participant 7 directly on his chipcard, for example in that a corresponding sum is deducted from a prepaid monetary amount stored on the chipcard. With the aid of a security method known to one skilled in the art, corresponding instructions can be transmitted, via the mobile 3o radio network 20, to the chipcard, removably connected to the mobile device of the participant 7.

In step 208, the quantity indication about the number of respective, available products is kept track of in that it is decreased by increments in the sales module 9.

3s Checked in step 209 is whether the quantity indication about the current number of respective products available is zero, i.e. whether a product is not available anymore. If respective products are still available, (the method)

continues in step 200 with the acceptance of a new order, if applicable. If, however, no corresponding product is available anymore, an instruction is transmitted, in step 210, to the mediating module from the sales module to stop the offering for sale of the respective product, as is indicated by the data flow 16 5 in Figure 1. In addition, a confirmation is sent to the respective vendor 1 that the offer has been terminated, for example. Depending upon the variant, this confirmation can also contain a settlement of accounts and/or inform the vendor 1

about how many products were sold. Afterwards, (the method) continues with the acceptance of a new order in step 200, if applicable. Step 210 can be carried out 10

also when the expiration date for a product offered for sale runs out, for example, through a separate process which checks the stored offers periodically. As mentioned above, such instructions to stop an offer can also be transmitted for other reasons, for example the withdrawal of an offer by the vendor 1 or changed supply conditions, such as availability or price. In the mediating module 5, receipt 15 of this instruction to stop the offering for sale of a particular product has the result that the broadcasting of the offer identification for the particular product via the different communications channels 61, 62, 63 is brought to an end, i.e. is terminated.

In an embodiment variant, it is possible for an interested participant 7 to be able to enter in addition an order quantity during the entering and transmission of an order described above, which order quantity is transmitted to the service center 11 together with the order data in the indicated data flow 10. This order quantity is transmitted by the service center 11 to the mediating module 5 together with the linked order data described above, and is passed on from there to the sales module 9, where it is received in step 200 by the programmed software process, illustrated in Figure 2.

In a first sub-variant of the multiple order, a further, additional token continues to be generated in the software program and the quantity indication for the available number of the respective product continues to be decreased by one increment until either the incrementally decreased quantity indication is zero, i.e. no further respective articles are available anymore and the order cannot be completely filled, or until the number of generated tokens corresponds to the ordered quantity, i.e. all respective products ordered can be supplied. In this first sub-variant, therefore, a token is generated for each product that can be supplied, and is transmitted to the participant 7. If there are not enough products available, the available number of tokens is transmitted to the participant 7 together with a corresponding confirmation. As mentioned above, in an alternative embodiment, the tokens can be generated and stored already in steps 100 and 101.

In a second sub-variant of the multiple order, if the said quantity indication is greater than zero, a token is generated which contains a supply number, which, beginning at zero, continues to be increased by one increment, and the indication of quantity of the respective products available is decreased by one increment until the supply number corresponds to the said order quantity, i.e. there are sufficient products available, or until the incrementally decreased quantity indication for the respective products available is zero, i.e. there are not enough products available, and the order cannot be completely filled. Thus, in this second sub-variant, only one token is generated for a plurality of ordered products, and is transmitted to the participant 7, this token containing, however, the number of supplied products. If not enough products are available, a corresponding confirmation is additionally transmitted to the participant 7. As mentioned above, in an alternative embodiment, the tokens can be generated and stored already in steps 100 and 101, i.e. in this second sub-variant of the multiple order as many of such pre-generated tokens are "destroyed" as correspond to the supply number of the transmitted token.

The two described sub-variants of the multiple order can also be used in combination by one skilled in the art, for example depending upon the respective products offered for sale and ordered.

For the case where an order can only be filled incompletely, it can be made possible by one skilled in the art through additional steps, which will not be gone into more closely here, for a participant 7 to cancel the only partially filled order, and thus increase the number of available products again by the number of returned tokens. A participant can generally be offered the possibility of cancelling an order; however a fee therefor can be charged to him, if necessary.

It should also be mentioned here that the described method can be implemented by one skilled in the art in such a way that an interested participant 7 can order a plurality of different products at the same time.

The data flows indicated by the arrows 8, 12, 13, and 16 between the service center 11 and the mediating module 5, respectively between the mediating module 5 and the sales module 9, depending upon the embodiment

variant and implementation of these servers, are carried out by one skilled in the art as computer-internal communication if the corresponding software programs are installed on the same computer, or are carried out via local fixed networks, for example via LAN's or high-speed buses, if the corresponding software processes are implemented on different computers.

The services of the described method can be charged to the vendors in various forms. For example, they can be asked to pay, for example, a one-time, a monthly or a yearly basic charge and additionally a commission, for example in proportion to the number of objects sold or offered for sale or in relationship to the proceeds from the sale of these objects.

Besides the possibilities of earnings through offering the services from the described method, it is also possible to sell a server, and in particular the software programs for a sales module 9.

Although only few application examples have been given here, the possibilities for application are almost unlimited, and the most varied types of electronic and automated bazaars and marketplaces can be implemented. It must also be mentioned here that the described method is suitable not only for incrementally decreasing processes in which, for example, the quantity indication or the number of tokens are decreased by increment, but it can also be very well applied to incrementing processes as well in which, for example, corresponding to the application, a quantity indication or a number of tokens is increased by increment.

Through extension of the indicated data flows 10 and 14 to fixed networks, for example the Internet or the public switched telephone network (PSTN), such bazaars and marketplaces can also be made accessible to participants in these fixed networks.

#### Claims

1. An order method with which participants (7) in a mobile radio network (20) can order goods and/or services from a multiplicity of vendors (1), various goods and/or services offered for sale being identified with different corresponding offer identifications, each offer identification comprising an identification of the vendor (1), participants ordering a particular item and/or a particular service by entering the corresponding offer identification into their

mobile device and transmitting corresponding order data via said mobile radio network (20) to a sales module (9), and a quantity indication being stored for at least certain of the goods and services offered for sale, which quantity indication corresponds to the limited available number of the respective item or service offered for sale, wherein tokens, which correspond to certain goods and/or services, are made available in a limited number by said sales module (9), which number corresponds to the available number of the respective item or service offered for sale, a token representing in each case an unambiguous certificate with information on identification of the ordered item or the ordered service and/or of the respective vendor, and a token being exchangeable in each case for the respective item or the respective service, and wherein

20 during an order, if the respective item or the respective service is available, a corresponding token is transmitted via said mobile radio network (20) to the mobile device of an ordering participant (7) and is stored there, the corresponding quantity indication about the available number being decreased by increments for each received order for which a token was generated or 25 respectively transmitted.

2. The order method according to the preceding claim, wherein the participant (7) is recognized with each order.

3. The order method according to the preceding claim, wherein the order data are linked to participant identification data.

30 4. The order method according to the preceding claim, wherein said participant identification data comprise a delivery address.

5. The order method according to one of the preceding claims, wherein order data are automatically routed to the vendor (1) indicated in the order data.

s 6. The order method according to one of the preceding claims, wherein goods and/or services are offered for sale to the participants (7) via various communications channels (61, 62, 63), at least certain offers containing an offer identification.

7. The order method according to the preceding claim, wherein the 1o offering for sale of an item or a service is stopped (210) when no corresponding tokens are available anymore.

8. The order method according to one of the claims 6 or 7, wherein the offering for sale of an item or a service is stopped (210) when the expiration date for this good or service has passed.

is 9. The order method according to one of the preceding claims, wherein at least certain of said tokens transmitted to the mobile device of the participant (7) are stored on a chipcard removably connected to this said mobile device.

10. The order method according to the preceding claim, wherein at least certain of the tokens stored on said chipcard are usable as an admission ticket 2o at an admission control point.

11. The order method according to the preceding claim, wherein at least certain of said ordering participants (7) additionally enter an order quantity which is transmitted to said sales module (9) together with said order data.

12. The order method according to the preceding claim, wherein a 2s number of tokens, if available, are transmitted corresponding to said order quantity.

13. The order method according to one of the claims 11 to 12, wherein tokens which comprise a supply number are transmitted.

14. The order method according to one of the preceding claims, wherein a said vendor (1) passes on to an automated offer server (3) information about said goods and/or services to be offered for sale.

15. The order method according to one of the preceding claims, wherein, in an additional step, the solvency of a said ordering participant (7) is checked 5 before a said token is transmitted.

16. The order method according to one of the preceding claims, wherein a negative decision is transmitted to a said ordering participant (7) via said mobile radio network (20) when a token corresponding to his received order is not available.

10 17. The order method according to one of the preceding claims, wherein the costs of an item or service ordered by a said ordering participant (7), for which a token

was transmitted, are charged to him in his bill for the communications costs in said mobile radio network (20).

18. The order method according to one of the claims 1 to 16, wherein the 15 costs of an item or service ordered by a said ordering participant (7), for which a token was transmitted, are charged to him in a bill from a financial services provider.

19. The order method according to one of the preceding claims <one of the claims 1 to 16>, wherein the costs of an item or service ordered by a said 20 ordering participant (7), for which a token was transmitted, are charged to him on his chipcard.

20. A sales method for selling goods and/or services of limited available quantity which are offered for sale by at least one vendor (1) to a multiplicity of participants (7) in at least one mobile radio network (20) via at least one 25 communications channel (61, 62, 63), in which sales method information about said goods and/or services offered for sale is received and stored (100, 101), which information comprises at least an identification of said goods and/or

services, an identification of their said vendor (1) as well as a quantity indication about said available number, and in which sales method orders are 30 accepted (200)

which contain at least an identification of the said goods and/or services, an identification of their vendor (1) as well as identification data on the interested said participant (7), wherein

tokens, which correspond to certain goods and/or services, are made available by a sales module (9) in a limited number, which number corresponds 5 to the available number of the respective item or service offered for sale, a token representing in each case an unambiguous certificate with information on identification of the ordered item or the ordered service and/or the respective vendor, and a token being in each case exchangeable for the respective item or the respective service, and wherein

10 during an order, if the respective item or the respective service is available, a corresponding token is transmitted via said mobile radio network (20) to the mobile device of an ordering participant (7) and is stored there, the corresponding quantity indication about the available number being decreased by increments for each received order for which a token was generated or 15 respectively transmitted.

21. The sales method according to the preceding claim, wherein instructions to stop the offering for sale of a respective item or a respective service (210) are issued are when the respective said quantity indication equals zero (209).

20 22. The sales method according to one of the claims 20 to 21, wherein instructions to stop the offering for sale of a respective item or a respective service are issued when an expiration date for this respective item or this respective service has passed.

23. The sales method according to one of the claims 20 to 22, wherein a 25 received said order further comprises an order quantity.

24. The sales method according to the preceding claim, wherein tokens are transmitted, the number of which corresponds to the order quantity when enough respective goods or services are available.

25. The sales method according to one of the claims 23 to 24, wherein a 30 token is transmitted which comprises a delivery number.

26. The sales method according to one of the claims 20 to 25, wherein, AMENDED  
PAGE

in an additional step (201), the solvency of a said interested participant (7) is checked before a token corresponding to his received order is transmitted to him (204).

27. The sales method according to one of the claims 20 to 26, wherein a 5 negative decision is transmitted (203) to a said interested participant (7) via said mobile radio network (20) when a token corresponding to his received order cannot be transmitted.

28. The sales method according to one of the claims 20 to 27, wherein the costs of an item or service ordered by a said ordering participant (7), for 10 which a token was transmitted, are charged to him in his bill for the communications costs in said mobile radio network (20).

29. The sales method according to one of the claims 20 to 27, wherein the costs of an item or service ordered by a said ordering participant (7), for which a token was transmitted, are charged to him in a bill from a financial 15 services provider.

30. The sales method according to one of the claims 20 to 29, wherein the costs of an item or service ordered by a said ordering participant (7), for which a token was transmitted, are charged to him on his chipcard.

31. The sales method according to one of the claims 20 to 30, wherein 20 said identification data on the interested participant (7) comprise a delivery address.

20

#### Abstract

Method of offering for sale, ordering and selling goods and services, in which these products are offered for sale by at least one vendor (1) to a 5 multiplicity of participants (7) in a mobile radio network (20) via various communications channels (61, 62, 63), interested participants (7) entering an offer identification into their mobile devices and transmitting this offer identification by means of short messages over the mobile radio network (20) to a service center (11), which recognizes a participant (7) and links data 10 contained in the short message with participant identification data, for at least certain products the available quantity thereof being stored (101) and a token being generated (204) for a suppliable received order, which token is transmitted to the respective vendor (1) and to the mobile device of the respective participant (7), and the quantity indication being gradually 15 decreased for each received order for which a token has been generated, and the supply of a product offered for sale being stopped (210) when said quantity indication equals zero (209) or its expiration date has passed.

20

25